

GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: December 6, 2005, 13:23:58 ; Search time 46 Seconds  
(without alignments)  
560.757 Million cell updates/sec

Title: US-10-785-607B-9  
Perfect score: 1605  
Sequence: 1 MARRSRHRLLLRLYLVA.....TFVIPALWKAAGGSGOEF 312

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents.AA.\*  
1: /cgn2\_6/ptodata/1/iaa/5-COMB.pep.\*  
2: /cgn2\_6/ptodata/1/iaa/6-COMB.pep.\*  
3: /cgn2\_6/ptodata/1/iaa/H-COMB.pep.\*  
4: /cgn2\_6/ptodata/1/iaa/PCTUS-COMB.pep.\*  
5: /cgn2\_6/ptodata/1/iaa/RE-COMB.pep.\*  
6: /cgn2\_6/ptodata/1/iaa/backfiles1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1605	100.0	312	2	US-09-254-465A-9
2	1605	100.0	312	2	US-09-907-794A-64
3	1605	100.0	312	2	US-09-905-125A-64
4	1605	100.0	312	2	US-09-902-775A-64
5	1605	100.0	312	2	US-09-906-700-64
6	1605	100.0	312	2	US-09-903-603A-64
7	1605	100.0	312	2	US-09-904-920A-64
8	1605	100.0	312	2	US-09-909-064-64
9	1605	100.0	312	2	US-09-905-381A-64
10	1605	100.0	312	2	US-09-906-618-64
11	1605	100.0	312	2	US-09-953-499-9
12	1605	100.0	312	2	US-09-906-646-64
13	1605	100.0	312	2	US-09-904-462-64
14	1605	100.0	312	2	US-09-902-736A-64
15	1605	100.0	312	2	US-09-906-722A-64
16	1465	91.3	298	2	US-09-152-060-76
17	1465	91.3	298	2	US-09-853-797-76
18	1465	91.3	298	2	US-09-853-161-76
19	1465	91.3	298	2	US-10-058-933-76
20	461.5	28.8	310	2	US-09-907-794A-423
21	461.5	28.8	310	2	US-09-905-125A-423
22	461.5	28.8	310	2	US-09-902-775A-423
23	461.5	28.8	310	2	US-09-906-700-423
24	461.5	28.8	310	2	US-09-903-603A-423
25	461.5	28.8	310	2	US-09-904-920A-423
26	461.5	28.8	310	2	US-09-909-064-423
27	461.5	28.8	310	2	US-09-905-381A-423

28	461.5	28.8	310	2	US-09-906-618-423	Sequence 423, App
29	461.5	28.8	310	2	US-09-906-646-423	Sequence 423, App
30	461.5	28.8	310	2	US-09-904-462-423	Sequence 423, App
31	461.5	28.8	310	2	US-09-902-736A-423	Sequence 423, App
32	461.5	28.8	310	2	US-10-033-301-20	Sequence 20, Appl
33	461.5	28.8	310	2	US-09-906-722A-423	Sequence 423, App
34	405	25.2	299	2	US-09-188-930-189	Sequence 189, App
35	404	25.2	299	2	US-09-188-930-331	Sequence 331, App
36	404	25.2	299	2	US-09-462-270-2	Sequence 2, Appl
37	404	25.2	299	2	US-09-254-465A-1	Sequence 1, Appl
38	404	25.2	299	2	US-09-312-283C-189	Sequence 189, App
39	404	25.2	299	2	US-09-312-283C-331	Sequence 331, App
40	404	25.2	299	2	US-09-907-794A-119	Sequence 119, App
41	404	25.2	299	2	US-09-905-125A-119	Sequence 119, App
42	404	25.2	299	2	US-09-902-775A-119	Sequence 119, App
43	404	25.2	299	2	US-03-397-243D-3	Sequence 3, Appl
44	404	25.2	299	2	US-09-906-700-119	Sequence 119, App
45	404	25.2	299	2	US-09-903-603A-119	Sequence 119, App

#### ALIGNMENTS

RESULT 1  
US-09-254-465A-9  
; Sequence 9, Application US/09254465A  
; Patent No. 6410708  
; GENERAL INFORMATION:  
; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, Avi J.  
; APPLICANT: Fong, Sherman  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Wood, William I.  
; TITLE OF INVENTION: COMPOUNDS, COMPOSITIONS AND METHODS FOR THE TREATMENT OF DISEASES CHARACTERIZED BY A33- RELATED ANTIGENS  
; FILE REFERENCE: P1216R1(US)  
; CURRENT APPLICATION NUMBER: US/09/254,465A  
; CURRENT FILING DATE: 1999-03-05  
; PRIOR FILING DATE: 1998-11-20  
; PRIOR APPLICATION NUMBER: PCT/US98/24855  
; PRIOR FILING DATE: 1997-11-21  
; PRIOR APPLICATION NUMBER: US 60/066,364  
; PRIOR FILING DATE: 1998-03-20  
; PRIOR APPLICATION NUMBER: PCT/US98/19437  
; NUMBER OF SEQ ID NOS: 30  
; SEQ ID NO 9  
; LENGTH: 312  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-254-465A-9

Query Match 100.0%; Score 1605; DB 2; Length 312;  
Best Local Similarity 100.0%; Pred. No. 9.1e-149;  
Matches 312; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 MARRSRHRLLLRLYLVAHGKAGFGAPKQQQVVTAVEYQEAIIACKTKPKTVSSR 60  
Db 1 MARRSRHRLLLRLYLVLVAGHKAAGFGAPKQQQVVTAVEYQEAIIACKTKPKTVSSR 60  
Qy 61 LEWKKLGRSVFVYQQTLOGDFKNRAEMIDFNIRIKNVTSDAGKYRCEVSAPSEQQN 120  
Db 61 LEWKKLGRSVFVYQQTLOGDFKNRAEMIDFNIRIKNVTSDAGKYRCEVSAPSEQQN 120  
Qy 121 LEEDTVTLVLVAPVPSCEVPSSALSGTVVELRCQKEGNPAPPEYTFWKGIRLLENPR 180  
Db 121 LEEDTVTLVLVAPVPSCEVPSSALSGTVVELRCQKEGNPAPPEYTFWKGIRLLENPR 180  
Qy 181 LGSQSTNSSTMTNKTGTQTFNTVSKLDTGYSCEARNSVGVRCPGKRMQVDLNLISGI 240

Db 181 LGSQSTNSSYTMNTKTGLQNTVTSKLDTGYSCEARNVSVRRCPGKRMQVDDLNISGI 240  
Qy 241 IAAVVVALVTSVCGLGVCYAAQRKGYSFKTSFQKSNSSKATMTSENVOQLTPVIPALW 300  
Db 241 IAAVVVALVTSVCGLGVCYAAQRKGYSFKTSFQKSNSSKATMTSENVOQLTPVIPALW 300  
Qy 301 KAAAGGSRGQEF 312  
Db 301 KAAAGGSRGQEF 312

## RESULT 2

US-09-907-794A-64

; Sequence 64, Application US/09907794A  
; Patent No. 6635468  
; GENERAL INFORMATION:  
; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, A.  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, Christopher J.  
; APPLICANT: Hillan, Kenneth, J.  
; APPLICANT: Kijavin, Ivar J.  
; APPLICANT: Mather, Jennie P.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE REFERENCE: 10466-14  
; CURRENT APPLICATION NUMBER: US/09/907,794A  
; PRIOR FILING DATE: 2001-07-17  
; PRIOR APPLICATION NUMBER: PCT/US00/04414  
; PRIOR FILING DATE: 2000-02-22  
; PRIOR APPLICATION NUMBER: US 60/143,048  
; PRIOR FILING DATE: 1999-07-07  
; PRIOR APPLICATION NUMBER: US 60/145,698  
; PRIOR FILING DATE: 1999-07-26  
; PRIOR APPLICATION NUMBER: US 60/146,222  
; PRIOR FILING DATE: 1999-07-28  
; PRIOR APPLICATION NUMBER: PCT/US99/20594  
; PRIOR FILING DATE: 1999-09-08  
; PRIOR APPLICATION NUMBER: PCT/US99/20944  
; PRIOR FILING DATE: 1999-09-13  
; PRIOR APPLICATION NUMBER: PCT/US99/21090  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/21547  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/23089  
; PRIOR FILING DATE: 1999-10-05  
; PRIOR APPLICATION NUMBER: PCT/US99/28214  
; PRIOR FILING DATE: 1999-11-29  
; PRIOR APPLICATION NUMBER: PCT/US99/28313  
; PRIOR FILING DATE: 1999-11-30  
; PRIOR APPLICATION NUMBER: PCT/US99/28564  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/28565  
; PRIOR FILING DATE: 1999-12-02

; PRIOR APPLICATION NUMBER: PCT/US99/30095  
; PRIOR FILING DATE: 1999-12-16  
; PRIOR APPLICATION NUMBER: PCT/US99/30911  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US99/30999  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US00/00219  
; PRIOR FILING DATE: 2000-01-05  
; NUMBER OF SEQ ID NOS: 423  
; SEQ ID NO 64  
; LENGTH: 312  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-907-794A-64

Query Match 100.0%; Score 1605; DB 2; Length 312;

Best Local Similarity 100.0%; Pred. No. 9.1e-149;

Matches 312; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MARRSRHRLLLLLRYLVVALGYHKAYGFSAPKDDQVVTAVEYOEALACKTPKKTVSSR 60  
Db 1 MARRSRHRLLLLLRYLVVALGYHKAYGFSAPKDDQVVTAVEYOEALACKTPKKTVSSR 60

Qy 61 LEWKKLGRSVSFVYQQTLOGDFKNRAEMIDFNIRIKNVTRSDAGKYRCEVSAPSEQQN 120  
Db 61 LEWKKLGRSVSFVYQQTLOGDFKNRAEMIDFNIRIKNVTRSDAGKYRCEVSAPSEQQN 120

Qy 121 LEEDTVTLVIVAPVPSCVPSALSAGTVVLRQCQKGNPAPEYTFWKGIRLLENPR 180  
Db 121 LEEDTVTLVIVAPVPSCVPSALSAGTVVLRQCQKGNPAPEYTFWKGIRLLENPR 180

Qy 181 LGSQSTNSSYTMNTKTGLQNTVTSKLDTGYSCEARNVSVRRCPGKRMQVDDLNISGI 240  
Db 181 LGSQSTNSSYTMNTKTGLQNTVTSKLDTGYSCEARNVSVRRCPGKRMQVDDLNISGI 240

Qy 241 IAAVVVALVTSVCGLGVCYAAQRKGYSFKTSFQKSNSSKATMTSENVOQLTPVIPALW 300  
Db 241 IAAVVVALVTSVCGLGVCYAAQRKGYSFKTSFQKSNSSKATMTSENVOQLTPVIPALW 300

Qy 301 KAAAGGSRGQEF 312  
Db 301 KAAAGGSRGQEF 312

## RESULT 3

US-09-905-125A-64

; Sequence 64, Application US/09905125A

; Patent No. 6664376

; GENERAL INFORMATION:

; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, A.  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, Christopher J.  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth, J.  
; APPLICANT: Kijavin, Ivar J.  
; APPLICANT: Mather, Jennie P.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey

APPLICANT: Wood, William, I.  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
TITLE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: 10466-14  
CURRENT APPLICATION NUMBER: US/09/905,125A  
CURRENT FILING DATE: 2001-07-12  
PRIOR APPLICATION NUMBER: PCT/US00/04414  
PRIOR FILING DATE: 2000-02-22  
PRIOR APPLICATION NUMBER: US 60/143,048  
PRIOR FILING DATE: 1999-07-07  
PRIOR APPLICATION NUMBER: US 60/145,698  
PRIOR FILING DATE: 1999-07-26  
PRIOR APPLICATION NUMBER: US 60/146,222  
PRIOR FILING DATE: 1999-07-28  
PRIOR APPLICATION NUMBER: PCT/US99/20594  
PRIOR FILING DATE: 1999-09-08  
PRIOR APPLICATION NUMBER: PCT/US99/20594  
PRIOR FILING DATE: 1999-09-15  
PRIOR APPLICATION NUMBER: PCT/US99/21547  
PRIOR FILING DATE: 1999-09-15  
PRIOR APPLICATION NUMBER: PCT/US99/23089  
PRIOR FILING DATE: 1999-10-05  
PRIOR APPLICATION NUMBER: PCT/US99/28214  
PRIOR FILING DATE: 1999-11-29  
PRIOR APPLICATION NUMBER: PCT/US99/28313  
PRIOR FILING DATE: 1999-11-30  
PRIOR APPLICATION NUMBER: PCT/US99/28564  
PRIOR FILING DATE: 1999-12-02  
PRIOR APPLICATION NUMBER: PCT/US99/28565  
PRIOR FILING DATE: 1999-12-16  
PRIOR APPLICATION NUMBER: PCT/US99/30095  
PRIOR FILING DATE: 1999-12-16  
PRIOR APPLICATION NUMBER: PCT/US99/30911  
PRIOR FILING DATE: 1999-12-20  
PRIOR APPLICATION NUMBER: PCT/US99/30999  
PRIOR FILING DATE: 1999-12-20  
PRIOR APPLICATION NUMBER: PCT/US00/00219  
PRIOR FILING DATE: 2000-01-05  
NUMBER OF SEQ ID NOS: 423  
SEQ ID NO 64  
LENGTH: 312  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-905-125A-64

Query Match 100.0%; Score 1605; DB 2; Length 312;  
Best Local Similarity 100.0%; Pred. No. 9.1e-149;  
Matches 312; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MARRSRHRLLLLLRYLVVAGYHKAYGFSAPKQOVVTAVYQEAAILACKTPKKTVSSR 60  
Db 1 MARRSRHRLLLLLRYLVVAGYHKAYGFSAPKQOVVTAVYQEAAILACKTPKKTVSSR 60  
QY 61 LEWKKLGRSVSVYVYQQTLOGDFKNRAEMIDFNIRIKNVRSDAGKYRCEVSAPSEQQN 120  
Db 61 LEWKKLGRSVSVYVYQQTLOGDFKNRAEMIDFNIRIKNVRSDAGKYRCEVSAPSEQQN 120  
QY 121 LBEETVTLVAVAPVSPSSALSGTVVBLRCQDKEGPNAPAYTTFWPKGIRLLENPR 180  
Db 121 LBEETVTLVAVAPVSPSSALSGTVVBLRCQDKEGPNAPAYTTFWPKGIRLLENPR 180  
QY 181 LGSQSTNSSTYNTTGTLOFTNTVSKLDTGEYSCEARNVGYRCPGKRMQVDDLNI 240  
Db 181 LGSQSTNSSTYNTTGTLOFTNTVSKLDTGEYSCEARNVGYRCPGKRMQVDDLNI 240  
QY 241 IAAVVVALVIVCGLVGVCYAKRGYFSKETSFKQSNSSKATTWSNVQWLTPTVIPALW 300  
Db 241 IAAVVVALVIVCGLVGVCYAKRGYFSKETSFKQSNSSKATTWSNVQWLTPTVIPALW 300  
QY 301 KAAAGSGRQEF 312  
|||||

Db 301 KAAAGSGRQEF 312  
RESULT 4  
US-09-902-775A-64  
Sequence 64, Application US/09902775A  
Patent No. 6686451  
GENERAL INFORMATION:  
APPLICANT: Genentech, Inc.  
APPLICANT: Ashkenazi, Avi  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Filvaroff, Ellen  
APPLICANT: Fong, Sherman  
APPLICANT: Gao, Wei-Qiang  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, A.  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, Christopher J.  
APPLICANT: Gurney, Austin L.  
APPLICANT: Hillan, Kenneth, J.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Mather, Jennie P.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William, I.  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
TITLE OF INVENTION: Acids Encoding the Same  
FILE REFERENCE: 10466-14  
CURRENT APPLICATION NUMBER: US/09/902,775A  
CURRENT FILING DATE: 2001-07-10  
PRIOR APPLICATION NUMBER: PCT/US00/04414  
PRIOR FILING DATE: 2000-02-22  
PRIOR APPLICATION NUMBER: US 60/143,048  
PRIOR FILING DATE: 1999-07-07  
PRIOR APPLICATION NUMBER: US 60/145,698  
PRIOR FILING DATE: 1999-07-26  
PRIOR APPLICATION NUMBER: US 60/146,222  
PRIOR FILING DATE: 1999-07-28  
PRIOR APPLICATION NUMBER: PCT/US99/20594  
PRIOR FILING DATE: 1999-09-08  
PRIOR APPLICATION NUMBER: PCT/US99/20944  
PRIOR FILING DATE: 1999-09-13  
PRIOR APPLICATION NUMBER: PCT/US99/21090  
PRIOR FILING DATE: 1999-09-15  
PRIOR APPLICATION NUMBER: PCT/US99/21547  
PRIOR FILING DATE: 1999-09-15  
PRIOR APPLICATION NUMBER: PCT/US99/23089  
PRIOR FILING DATE: 1999-10-05  
PRIOR APPLICATION NUMBER: PCT/US99/28214  
PRIOR FILING DATE: 1999-11-29  
PRIOR APPLICATION NUMBER: PCT/US99/28313  
PRIOR FILING DATE: 1999-11-30  
PRIOR APPLICATION NUMBER: PCT/US99/28564  
PRIOR FILING DATE: 1999-12-02  
PRIOR APPLICATION NUMBER: PCT/US99/28565  
PRIOR FILING DATE: 1999-12-02  
PRIOR APPLICATION NUMBER: PCT/US99/30095  
PRIOR FILING DATE: 1999-12-16  
PRIOR APPLICATION NUMBER: PCT/US99/30911  
PRIOR FILING DATE: 1999-12-20  
PRIOR APPLICATION NUMBER: PCT/US99/30999  
PRIOR FILING DATE: 1999-12-20  
PRIOR APPLICATION NUMBER: PCT/US00/00219  
PRIOR FILING DATE: 2000-01-05  
NUMBER OF SEQ ID NOS: 423

```
; SEQ ID NO 64
; LENGTH: 312
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-902-775A-64

Query Match      100.0%; Score 1605; DB 2; Length 312;
Best Local Similarity 100.0%; Pred. No. 9.1e-149;
Matches 312; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MARSRHRLLLRLYLVALGYHKA YGFSAPKDDQVVTA VEYQEA ILLACKTPKKT VSSR 60
Db 1 MARSRHRLLLRLYLVALGYHKA YGFSAPKDDQVVTA VEYQEA ILLACKTPKKT VSSR 60

Qy 61 LEWKLGSRVSFVYYQQTLOGDFKNRAEMIDFNIRIKNVTRSDAGKYRCEVSAPSEQQN 120
Db 61 LEWKLGSRVSFVYYQQTLOGDFKNRAEMIDFNIRIKNVTRSDAGKYRCEVSAPSEQQN 120

Qy 121 LEEDTVTLVLVAPVPSCVPSALSCTVVELRCQDKEGNAPEYTWFKDGI RLLNPR 180
Db 121 LEEDTVTLVLVAPVPSCVPSALSCTVVELRCQDKEGNAPEYTWFKDGI RLLNPR 180

Qy 181 LGSQSTNSSYTMNTKTGTLOFNVTYSKLDTGYSCEARN SVGYRRCPGKRMQVDDLNISGI 240
Db 181 LGSQSTNSSYTMNTKTGTLOFNVTYSKLDTGYSCEARN SVGYRRCPGKRMQVDDLNISGI 240

Qy 241 IAAVVVVALVTSVCGLVGCYAKRGYFSKETSFOKSNSSSKATTMSENVQWLTPTVIPALW 300
Db 241 IAAVVVVALVTSVCGLVGCYAKRGYFSKETSFOKSNSSSKATTMSENVQWLTPTVIPALW 300

Qy 301 KAAAGGSRGQEF 312
Db 301 KAAAGGSRGQEF 312

RESULT 6
US-09-906-700-64
; Sequence 64, Application US/09906700
; Patent No. 6723535
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/906,700
; CURRENT FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; APPLICANT: Genentech, Inc.

; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 64
; LENGTH: 312
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-906-700-64

Query Match      100.0%; Score 1605; DB 2; Length 312;
Best Local Similarity 100.0%; Pred. No. 9.1e-149;
Matches 312; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MARSRHRLLLRLYLVALGYHKA YGFSAPKDDQVVTA VEYQEA ILLACKTPKKT VSSR 60
Db 1 MARSRHRLLLRLYLVALGYHKA YGFSAPKDDQVVTA VEYQEA ILLACKTPKKT VSSR 60

Qy 61 LEWKLGSRVSFVYYQQTLOGDFKNRAEMIDFNIRIKNVTRSDAGKYRCEVSAPSEQQN 120
Db 61 LEWKLGSRVSFVYYQQTLOGDFKNRAEMIDFNIRIKNVTRSDAGKYRCEVSAPSEQQN 120

Qy 121 LEEDTVTLVLVAPVPSCVPSALSCTVVELRCQDKEGNAPEYTWFKDGI RLLNPR 180
Db 121 LEEDTVTLVLVAPVPSCVPSALSCTVVELRCQDKEGNAPEYTWFKDGI RLLNPR 180

Qy 181 LGSQSTNSSYTMNTKTGTLOFNVTYSKLDTGYSCEARN SVGYRRCPGKRMQVDDLNISGI 240
Db 181 LGSQSTNSSYTMNTKTGTLOFNVTYSKLDTGYSCEARN SVGYRRCPGKRMQVDDLNISGI 240

Qy 241 IAAVVVVALVTSVCGLVGCYAKRGYFSKETSFOKSNSSSKATTMSENVQWLTPTVIPALW 300
Db 241 IAAVVVVALVTSVCGLVGCYAKRGYFSKETSFOKSNSSSKATTMSENVQWLTPTVIPALW 300

Qy 301 KAAAGGSRGQEF 312
Db 301 KAAAGGSRGQEF 312
```



APPLICANT: Ashkenazi, Avi  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Filvaroff, Ellen  
APPLICANT: Fong, Sherman  
APPLICANT: Gao, Wei-Qiang  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, A.  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, Christopher J.  
APPLICANT: Gurney, Austin L.  
APPLICANT: Hillan, Kenneth, J.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Mather, Jennie P.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William, I.  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: GNE.1618P2C12  
CURRENT APPLICATION NUMBER: US/09/903,603A  
PRIOR FILING DATE: 2001-07-11  
PRIOR APPLICATION NUMBER: PCT/US00/04414  
PRIOR FILING DATE: 2000-02-22  
PRIOR APPLICATION NUMBER: US 60/143,048  
PRIOR FILING DATE: 1999-07-07  
PRIOR APPLICATION NUMBER: US 60/145,698  
PRIOR FILING DATE: 1998-07-26  
PRIOR APPLICATION NUMBER: US 60/146,222  
PRIOR FILING DATE: 1999-07-28  
PRIOR APPLICATION NUMBER: PCT/US99/20594  
PRIOR FILING DATE: 1999-09-08  
PRIOR APPLICATION NUMBER: PCT/US99/20944  
PRIOR FILING DATE: 1999-09-13  
PRIOR APPLICATION NUMBER: PCT/US99/21090  
PRIOR FILING DATE: 1999-09-15  
PRIOR APPLICATION NUMBER: PCT/US99/21547  
PRIOR FILING DATE: 1999-09-15  
PRIOR APPLICATION NUMBER: PCT/US99/23089  
PRIOR FILING DATE: 1999-10-05  
PRIOR APPLICATION NUMBER: PCT/US99/28214  
PRIOR FILING DATE: 1999-11-29  
PRIOR APPLICATION NUMBER: PCT/US99/28313  
PRIOR FILING DATE: 1999-11-30  
PRIOR APPLICATION NUMBER: PCT/US99/28564  
PRIOR FILING DATE: 1999-12-02  
PRIOR APPLICATION NUMBER: PCT/US99/28565  
PRIOR FILING DATE: 1999-12-02  
PRIOR APPLICATION NUMBER: PCT/US99/30095  
PRIOR FILING DATE: 1999-12-16  
PRIOR APPLICATION NUMBER: PCT/US99/30911  
PRIOR FILING DATE: 1999-12-20  
PRIOR APPLICATION NUMBER: PCT/US99/30999  
PRIOR FILING DATE: 1999-12-20  
PRIOR APPLICATION NUMBER: PCT/US00/00219  
PRIOR FILING DATE: 2000-01-05  
NUMBER OF SEQ ID NOS: 423  
SEQ ID NO 64  
LENGTH: 312  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-903-603A-64

QY 1 MARRSRHRLLLRLRYLVVALGYHKAYGFSAPKDOQVVTAVYQBAIACKTPKKTSSR 60  
Db 1 MARRSRHRLLLRLRYLVVALGYHKAYGFSAPKDOQVVTAVYQBAIACKTPKKTSSR 60  
QY 61 LEWKKLGRSVSFVYQOQLQDGFKNRAEMIDFNIRIKNVTRSDAGKYRCEVSAPSEQGN 120  
Db 61 LEWKKLGRSVSFVYQOQLQDGFKNRAEMIDFNIRIKNVTRSDAGKYRCEVSAPSEQGN 120  
QY 121 LEEDTVTLVLVAPAVPSCPSSALSCTVVVELRCODKEGNPAPEYTFKDGIRLLENPR 180  
Db 121 LEEDTVTLVLVAPAVPSCPSSALSCTVVVELRCODKEGNPAPEYTFKDGIRLLENPR 180  
QY 181 LGSQSTNSSTYMTNTKGTGLQFNTVSKLDTGEYSCEARNVSVYRRCFGKRMQVDDNLNISI 240  
Db 181 LGSQSTNSSTYMTNTKGTGLQFNTVSKLDTGEYSCEARNVSVYRRCFGKRMQVDDNLNISI 240  
QY 241 IAAVVVVALVTSVCGLVGYCAQRKGYSFKETSFKQSNSSSKATTMSNVQMLTPVIPALW 300  
Db 241 IAAVVVVALVTSVCGLVGYCAQRKGYSFKETSFKQSNSSSKATTMSNVQMLTPVIPALW 300  
QY 301 KAAAGSGRQEF 312  
Db 301 KAAAGSGRQEF 312

RESULT 7  
US-09-904-920A-64  
Sequence 64, Application US/09904920A  
Patent No. 6806352  
GENERAL INFORMATION:  
APPLICANT: Genentech, Inc.  
APPLICANT: Ashkenazi, Avi  
APPLICANT: Botstein, David  
APPLICANT: Desnoyers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Filvaroff, Ellen  
APPLICANT: Fong, Sherman  
APPLICANT: Gao, Wei-Qiang  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, A.  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, Christopher J.  
APPLICANT: Gurney, Austin L.  
APPLICANT: Hillan, Kenneth, J.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Mather, Jennie P.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William, I.  
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: 10466-14  
CURRENT APPLICATION NUMBER: US/09/904,920A  
CURRENT FILING DATE: 2001-07-13  
PRIOR APPLICATION NUMBER: PCT/US00/04414  
PRIOR FILING DATE: 2000-02-22  
PRIOR APPLICATION NUMBER: US 60/143,048  
PRIOR FILING DATE: 1999-07-07  
PRIOR APPLICATION NUMBER: US 60/145,698  
PRIOR FILING DATE: 1999-07-26  
PRIOR APPLICATION NUMBER: US 60/146,222  
PRIOR FILING DATE: 1999-07-28  
PRIOR APPLICATION NUMBER: PCT/US99/20594  
PRIOR FILING DATE: 1999-09-08  
PRIOR APPLICATION NUMBER: PCT/US99/20944  
PRIOR FILING DATE: 1999-09-13

Query Match 100.0%; Score 1605; DB 2; Length 312;  
Best Local Similarity 100.0%; Pred. No. 9.1e-149;  
Matches 312; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

; PRIOR APPLICATION NUMBER: PCT/US99/210900
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/230899
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 64
; LENGTH: 312
; TYPE: prt
; ORGANISM: Homo sapiens
US-09-904-920A-64

```

Query Match	100.0%	Score 1605;	DB 2;	Length 312;
Best Local Similarity	100.0%;	Pred. No. 9.1e-149;		
Matches 312;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
Qy	1	MARRSRRLLLLLRLYLVALGYHKA	GFSAPKQOVVTA	VEYQEAIIACKTPKKTSSR 60
Db	1	MARRSRRLLLLLRLYLVALGYHKA	GFSAPKQOVVTA	VEYQEAIIACKTPKKTSSR 60
Qy	61	LEWKKLGRSVSFVYYQOTLQGD	FNKRAEMIDFNIRIKNVTRSDAGK	YRCEVSAPSEQQN 120
Db	61	LEWKKLGRSVSFVYYQOTLQGD	FNKRAEMIDFNIRIKNVTRSDAGK	YRCEVSAPSEQQN 120
Qy	121	LEEDTVLEVLVAPAPVCEVPSSAL	SGTVVELRCQKEGNAPAEYTFW	FKDGIIRLENPR 180
Db	121	LEEDTVLEVLVAPAPVCEVPSSAL	SGTVVELRCQKEGNAPAEYTFW	FKDGIIRLENPR 180
Qy	181	LGSOSTNSSYTMNTKTGLQENTV	SKLDGTGYSCARNVGYRCPGKRM	QVDDLNTSGI 240
Db	181	LGSOSTNSSYTMNTKTGLQENTV	SKLDGTGYSCARNVGYRCPGKRM	QVDDLNTSGI 240
Qy	241	IAAVVVVALVISVCGLGVCYQA	RXGYFSKETSFQKSNSSSKAT	TMSENVQWLTPVIPALW 300
Db	241	IAAVVVVALVISVCGLGVCYQA	RXGYFSKETSFQKSNSSSKAT	TMSENVQWLTPVIPALW 300
Qy	301	KAAAGSGRGQEF 312		
Db	301	KAAAGSGRGQEF 312		

RESULT 8  
US - 909 - 909 - 064 - 64  
; Sequence 64, Application US/09909064  
; Patent No. 6918449  
; GENERAL INFORMATION:  
; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, David  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Flivaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter

```

? APPLICANT: Gerritsen, Mary E.
? APPLICANT: Goddard, A.
? APPLICANT: Godowski, Paul J.
? APPLICANT: Grimaldi, Christopher J.
? APPLICANT: Gurney, Austin L.
? APPLICANT: Hillan, Kenneth, J.
? APPLICANT: Kljavin, Ivar J.
? APPLICANT: Mather, Jennie P.
? APPLICANT: Pan, James
? APPLICANT: Paoni, Nicholas F.
? APPLICANT: Roy, Margaret Ann
? APPLICANT: Stewart, Timothy A.
? APPLICANT: Tumas, Daniel
? APPLICANT: Williams, P. Mickey
? APPLICANT: Wood, William, I.
? TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
? FILE REFERENCE: 10466-14
? CURRENT APPLICATION NUMBER: US/09/909,064
? CURRENT FILING DATE: 2001-07-18
? PRIOR APPLICATION NUMBER: PCT/US00/04414
? PRIOR FILING DATE: 2000-02-22
? PRIOR APPLICATION NUMBER: US 60/143,048
? PRIOR FILING DATE: 1999-07-07
? PRIOR APPLICATION NUMBER: US 60/145,698
? PRIOR FILING DATE: 1999-07-26
? PRIOR APPLICATION NUMBER: US 60/146,222
? PRIOR FILING DATE: 1999-07-28
? PRIOR APPLICATION NUMBER: PCT/US99/20594
? PRIOR FILING DATE: 1999-09-08
? PRIOR APPLICATION NUMBER: PCT/US99/20944
? PRIOR FILING DATE: 1999-09-13
? PRIOR APPLICATION NUMBER: PCT/US99/21090
? PRIOR FILING DATE: 1999-09-15
? PRIOR APPLICATION NUMBER: PCT/US99/21547
? PRIOR FILING DATE: 1999-09-15
? PRIOR APPLICATION NUMBER: PCT/US99/23089
? PRIOR FILING DATE: 1999-10-05
? PRIOR APPLICATION NUMBER: PCT/US99/28214
? PRIOR FILING DATE: 1999-11-29
? PRIOR APPLICATION NUMBER: PCT/US99/28313
? PRIOR FILING DATE: 1999-11-30
? PRIOR APPLICATION NUMBER: PCT/US99/28564
? PRIOR FILING DATE: 1999-12-02
? PRIOR APPLICATION NUMBER: PCT/US99/28565
? PRIOR FILING DATE: 1999-12-02
? PRIOR APPLICATION NUMBER: PCT/US99/30095
? PRIOR FILING DATE: 1999-12-16
? PRIOR APPLICATION NUMBER: PCT/US99/30911
? PRIOR FILING DATE: 1999-12-20
? PRIOR APPLICATION NUMBER: PCT/US99/30999
? PRIOR FILING DATE: 1999-12-20
? PRIOR APPLICATION NUMBER: PCT/US00/00219
? PRIOR FILING DATE: 2000-01-05
? NUMBER OF SEQ ID NOS: 423
? SEQ ID NO 64
? LENGTH: 312
? TYPE: PRT
? ORGANISM: Homo sapiens
? US-09-909-064-64

```

	Query Match	100.0%;	Score 1605;	DB 2;	Length 312;
	Best Local Similarity	100.0%;	Pred. No. 9.1e-149;		
	Matches 312;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
Qy	1	MARRSRHRLLLLRLLRVLWALGYHKYAGFSA	PKDQQVVTAVYQEQAILACKTPKKT	VSSR	60
Db	1	MARRSRHRLLLLRLLRVLWALGYHKYAGFSA	PKDQQVVTAVYQEQAILACKTPKKT	VSSR	60
Qy	61	LEWKKLGSRVSFVYQOTLQDGFKNRAEMDFNIR	IKNVTRSDAGKYRCVPSAPSEQQN		120
Db	61	LEWKKLGSRVSFVYQOTLQDGFKNRAEMDFNIR	IKNVTRSDAGKYRCVPSAPSEQQN		120



! APPLICANT: Paoni, Nicholas P.  
! APPLICANT: Roy, Margaret Ann  
! APPLICANT: Stewart, Timothy A.  
! APPLICANT: Tumas, Daniel  
! APPLICANT: Williams, P. Mickey  
! APPLICANT: Wood, William, I.  
! TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
! TITLE OF INVENTION: Acids Encoding the Same  
! FILE REFERENCE: 10466-14  
! CURRENT APPLICATION NUMBER: US/09/906,618  
! PRIOR FILING DATE: 2001-07-16  
! PRIOR APPLICATION NUMBER: PCT/US00/04414  
! PRIOR FILING DATE: 2000-02-22  
! PRIOR APPLICATION NUMBER: US 60/143,048  
! PRIOR FILING DATE: 1999-07-07  
! PRIOR APPLICATION NUMBER: US 60/145,698  
! PRIOR FILING DATE: 1999-07-26  
! PRIOR APPLICATION NUMBER: US 60/146,222  
! PRIOR FILING DATE: 1999-07-28  
! PRIOR APPLICATION NUMBER: PCT/US99/20594  
! PRIOR FILING DATE: 1999-09-08  
! PRIOR APPLICATION NUMBER: PCT/US99/20944  
! PRIOR FILING DATE: 1999-09-13  
! PRIOR APPLICATION NUMBER: PCT/US99/21090  
! PRIOR FILING DATE: 1999-09-15  
! PRIOR APPLICATION NUMBER: PCT/US99/21547  
! PRIOR FILING DATE: 1999-09-15  
! PRIOR APPLICATION NUMBER: PCT/US99/23089  
! PRIOR FILING DATE: 1999-10-05  
! PRIOR APPLICATION NUMBER: PCT/US99/28214  
! PRIOR FILING DATE: 1999-11-29  
! PRIOR APPLICATION NUMBER: PCT/US99/28313  
! PRIOR FILING DATE: 1999-11-30  
! PRIOR APPLICATION NUMBER: PCT/US99/28564  
! PRIOR FILING DATE: 1999-12-02  
! PRIOR APPLICATION NUMBER: PCT/US99/28565  
! PRIOR FILING DATE: 1999-12-02  
! PRIOR APPLICATION NUMBER: PCT/US99/30095  
! PRIOR FILING DATE: 1999-12-16  
! PRIOR APPLICATION NUMBER: PCT/US99/30911  
! PRIOR FILING DATE: 1999-12-20  
! PRIOR APPLICATION NUMBER: PCT/US99/30999  
! PRIOR FILING DATE: 1999-12-20  
! PRIOR APPLICATION NUMBER: PCT/US00/00219  
! PRIOR FILING DATE: 2000-01-05  
! NUMBER OF SEQ ID NOS: 423  
! SEQ ID NO 64  
! LENGTH: 312  
! TYPE: PRT  
! ORGANISM: Homo sapiens  
US-09-906-618-64

Query Match 100.0%; Score 1605; DB 2; Length 312;  
Best Local Similarity 100.0%; Pred. No. 9.1e-149;  
Matches 312; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 MARRSRHRLLLRLYLVALGYHKA YGFSAPKDDQVVTAVEYQEA ILLACKTPKKT VSSR 60  
Db 1 MARRSRHRLLLRLYLVALGYHKA YGFSAPKDDQVVTAVEYQEA ILLACKTPKKT VSSR 60  
Qy 61 LEWKLGSRVSFVYQQTLOGDFKNRAEMIDFNIRIKNVTRSDAGKRCVSA PSEOGQN 120  
Db 61 LEWKLGSRVSFVYQQTLOGDFKNRAEMIDFNIRIKNVTRSDAGKRCVSA PSEOGQN 120  
Qy 121 LEEDTVTLVLVAPVPSCEVPSSALSGTVVLRCDQKEGNPAPEYTWFKDGI RLLNPR 180  
Db 121 LEEDTVTLVLVAPVPSCEVPSSALSGTVVLRCDQKEGNPAPEYTWFKDGI RLLNPR 180  
Qy 181 LGSQSTNSSYTMNTKTGTLOFNVTSKLDTGEYSCAERNVGYRRCPGKRMQVDD LNI SGI 240  
Db 181 LGSQSTNSSYTMNTKTGTLOFNVTSKLDTGEYSCAERNVGYRRCPGKRMQVDD LNI SGI 240  
Qy 241 IAAVVVVALVISVGLGVCYQAKRGYFSKTSFKSNSSSKATTTMSENVQWLT PVI PALW 300  
Db 241 IAAVVVVALVISVGLGVCYQAKRGYFSKTSFKSNSSSKATTTMSENVQWLT PVI PALW 300

RESULT 12

Db 241 IAAVVVVALVISVGLGVCYQAKRGYFSKTSFKSNSSSKATTTMSENVQWLT PVI PALW 300  
Qy 301 KAAAGGSRGQEF 312  
Db 301 KAAAGGSRGQEF 312  
RESULT 11  
US-09-953-499-9  
! Sequence 9, Application US/09953499  
! Patent NO. 6838554  
! GENERAL INFORMATION:  
! APPLICANT: Genentech, Inc.  
! APPLICANT: Ashkenazi, Avi J.  
! APPLICANT: Fong, Sherman  
! APPLICANT: Goddard, Audrey  
! APPLICANT: Gurney, Austin L.  
! APPLICANT: Napier, Mary A.  
! APPLICANT: Tumas, Daniel  
! APPLICANT: Wood, William I.  
! TITLE OF INVENTION: COMPOUNDS, COMPOSITIONS AND METHODS FOR THE TREATMENT  
! TITLE OF INVENTION: OF DISEASES CHARACTERIZED BY A33- RELATED ANTIGENS  
! FILE REFERENCE: P1216R1(US)  
! CURRENT APPLICATION NUMBER: US/09/953,499  
! CURRENT FILING DATE: 2001-09-14  
! PRIOR APPLICATION NUMBER: US/09/254,465  
! PRIOR FILING DATE: 1999-03-05  
! PRIOR APPLICATION NUMBER: PCT/US98/24855  
! PRIOR FILING DATE: 1998-11-20  
! PRIOR APPLICATION NUMBER: US 60/066,364  
! PRIOR FILING DATE: 1997-11-21  
! PRIOR APPLICATION NUMBER: US 60/078,936  
! PRIOR FILING DATE: 1998-03-20  
! PRIOR APPLICATION NUMBER: PCT/US98/19437  
! PRIOR FILING DATE: 1998-09-17  
! NUMBER OF SEQ ID NOS: 30  
! SEQ ID NO 9  
! LENGTH: 312  
! TYPE: PRT  
! ORGANISM: Homo sapiens  
US-09-953-499-9

Query Match 100.0%; Score 1605; DB 2; Length 312;  
Best Local Similarity 100.0%; Pred. No. 9.1e-149;  
Matches 312; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 MARRSRHRLLLRLYLVALGYHKA YGFSAPKDDQVVTAVEYQEA ILLACKTPKKT VSSR 60  
Db 1 MARRSRHRLLLRLYLVALGYHKA YGFSAPKDDQVVTAVEYQEA ILLACKTPKKT VSSR 60  
Qy 61 LEWKLGSRVSFVYQQTLOGDFKNRAEMIDFNIRIKNVTRSDAGKRCVSA PSEOGQN 120  
Db 61 LEWKLGSRVSFVYQQTLOGDFKNRAEMIDFNIRIKNVTRSDAGKRCVSA PSEOGQN 120  
Qy 121 LEEDTVTLVLVAPVPSCEVPSSALSGTVVLRCDQKEGNPAPEYTWFKDGI RLLNPR 180  
Db 121 LEEDTVTLVLVAPVPSCEVPSSALSGTVVLRCDQKEGNPAPEYTWFKDGI RLLNPR 180  
Qy 181 LGSQSTNSSYTMNTKTGTLOFNVTSKLDTGEYSCAERNVGYRRCPGKRMQVDD LNI SGI 240  
Db 181 LGSQSTNSSYTMNTKTGTLOFNVTSKLDTGEYSCAERNVGYRRCPGKRMQVDD LNI SGI 240  
Qy 241 IAAVVVVALVISVGLGVCYQAKRGYFSKTSFKSNSSSKATTTMSENVQWLT PVI PALW 300  
Db 241 IAAVVVVALVISVGLGVCYQAKRGYFSKTSFKSNSSSKATTTMSENVQWLT PVI PALW 300  
Qy 301 KAAAGGSRGQEF 312  
Db 301 KAAAGGSRGQEF 312

RESULT 12



;; PRIOR FILING DATE: 1999-07-26  
;; PRIOR APPLICATION NUMBER: US 60/146,222  
;; PRIOR FILING DATE: 1999-07-28  
;; PRIOR APPLICATION NUMBER: PCT/US99/20594  
;; PRIOR FILING DATE: 1999-09-08  
;; PRIOR APPLICATION NUMBER: PCT/US99/20944  
;; PRIOR FILING DATE: 1999-09-13  
;; PRIOR APPLICATION NUMBER: PCT/US99/21090  
;; PRIOR FILING DATE: 1999-09-15  
;; PRIOR APPLICATION NUMBER: PCT/US99/21547  
;; PRIOR FILING DATE: 1999-09-15  
;; PRIOR APPLICATION NUMBER: PCT/US99/23089  
;; PRIOR FILING DATE: 1999-10-05  
;; PRIOR APPLICATION NUMBER: PCT/US99/28214  
;; PRIOR FILING DATE: 1999-11-29  
;; PRIOR APPLICATION NUMBER: PCT/US99/28313  
;; PRIOR FILING DATE: 1999-11-30  
;; PRIOR APPLICATION NUMBER: PCT/US99/28564  
;; PRIOR FILING DATE: 1999-12-02  
;; PRIOR APPLICATION NUMBER: PCT/US99/28565  
;; PRIOR FILING DATE: 1999-12-02  
;; PRIOR APPLICATION NUMBER: PCT/US99/30095  
;; PRIOR FILING DATE: 1999-12-16  
;; PRIOR APPLICATION NUMBER: PCT/US99/30911  
;; PRIOR FILING DATE: 1999-12-20  
;; PRIOR APPLICATION NUMBER: PCT/US99/30999  
;; PRIOR FILING DATE: 1999-12-20  
;; PRIOR APPLICATION NUMBER: PCT/US00/00219  
;; PRIOR FILING DATE: 2000-01-05  
;; NUMBER OF SEQ ID NOS: 423  
;; SEQ ID NO 64  
;; LENGTH: 312  
;; TYPE: PRT  
;; ORGANISM: Homo sapiens  
US-09-904-462-64

Query Match 100.0%; Score 1605; DB 2; Length 312;  
Best Local Similarity 100.0%; Pred. No. 9.1e-149; Indels 0; Gaps 0;  
Matches 312; Conservative 0; Mismatches 0;  
Qy 1 MARRSRHLLLLRLYLVALGYHKAFSAPKQDVVTAVEYQEAIIACKTPKKTSSR 60  
Db 1 MARRSRHLLLLRLYLVALGYHKAFSAPKQDVVTAVEYQEAIIACKTPKKTSSR 60  
Qy 61 LEWKLGSRVSFVYQTLQDGFKNRAEMIDFNIRIKNVTRSDAGKYRCEVSAPSEOGN 120  
Db 61 LEWKLGSRVSFVYQTLQDGFKNRAEMIDFNIRIKNVTRSDAGKYRCEVSAPSEOGN 120  
Qy 121 LEEDTVTLVLVAPVSPCEVPSSALSGTVVVELRCQDEKGNPAPEYTWFKDGIRLLENPR 180  
Db 121 LEEDTVTLVLVAPVSPCEVPSSALSGTVVVELRCQDEKGNPAPEYTWFKDGIRLLENPR 180  
Qy 181 LGSQSTNSSYTMNTKTGTLOPNTVSKLDTGYSCEARNVGYRCPGKRMQVDDNLNLSGI 240  
Db 181 LGSQSTNSSYTMNTKTGTLOPNTVSKLDTGYSCEARNVGYRCPGKRMQVDDNLNLSGI 240  
Qy 241 IAAVVVALVTSVGLGVCAQRKGYSKETSFKQSNSSSKATTMSNVQWLTVPVIALW 300  
Db 241 IAAVVVALVTSVGLGVCAQRKGYSKETSFKQSNSSSKATTMSNVQWLTVPVIALW 300  
Qy 301 KAAAGSGRGQEF 312  
Db 301 KAAAGSGRGQEF 312

RESULT 14  
US-09-902-736A-64  
; Sequence 64, Application US/09902736A  
; Patent No. 6894148  
; GENERAL INFORMATION:  
; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Botstein, David

;; APPLICANT: Desnoyers, Luc  
;; APPLICANT: Eaton, Dan L.  
;; APPLICANT: Ferrara, Napoleone  
;; APPLICANT: Filvaroff, Ellen  
;; APPLICANT: Fong, Sherman  
;; APPLICANT: Gao, Wei-Qiang  
;; APPLICANT: Gerber, Hanspeter  
;; APPLICANT: Gerritsen, Mary E.  
;; APPLICANT: Goddard, A.  
;; APPLICANT: Godowski, Paul J.  
;; APPLICANT: Grimaldi, Christopher J.  
;; APPLICANT: Gurney, Austin L.  
;; APPLICANT: Hillan, Kenneth, J.  
;; APPLICANT: Kijavini, Ivar J.  
;; APPLICANT: Mather, Jennie P.  
;; APPLICANT: Pan, James  
;; APPLICANT: Paoni, Nicholas F.  
;; APPLICANT: Roy, Margaret Ann  
;; APPLICANT: Stewart, Timothy A.  
;; APPLICANT: Tumas, Daniel  
;; APPLICANT: Williams, P. Mickey  
;; APPLICANT: Wood, William, I.  
;; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
;; FILE REFERENCE: 10466-14  
;; CURRENT APPLICATION NUMBER: US/09/902,736A  
;; CURRENT FILING DATE: 2001-07-10  
;; PRIOR APPLICATION NUMBER: PCT/US00/04414  
;; PRIOR FILING DATE: 2000-02-22  
;; PRIOR APPLICATION NUMBER: US 60/143,048  
;; PRIOR FILING DATE: 1999-07-07  
;; PRIOR APPLICATION NUMBER: US 60/145,698  
;; PRIOR FILING DATE: 1999-07-26  
;; PRIOR APPLICATION NUMBER: US 60/146,222  
;; PRIOR FILING DATE: 1999-07-28  
;; PRIOR APPLICATION NUMBER: PCT/US99/20594  
;; PRIOR FILING DATE: 1999-09-08  
;; PRIOR APPLICATION NUMBER: PCT/US99/20944  
;; PRIOR FILING DATE: 1999-09-13  
;; PRIOR APPLICATION NUMBER: PCT/US99/21090  
;; PRIOR FILING DATE: 1999-09-15  
;; PRIOR APPLICATION NUMBER: PCT/US99/21547  
;; PRIOR FILING DATE: 1999-09-15  
;; PRIOR APPLICATION NUMBER: PCT/US99/23089  
;; PRIOR FILING DATE: 1999-10-05  
;; PRIOR APPLICATION NUMBER: PCT/US99/28214  
;; PRIOR FILING DATE: 1999-11-29  
;; PRIOR APPLICATION NUMBER: PCT/US99/28313  
;; PRIOR FILING DATE: 1999-11-30  
;; PRIOR APPLICATION NUMBER: PCT/US99/28564  
;; PRIOR FILING DATE: 1999-12-02  
;; PRIOR APPLICATION NUMBER: PCT/US99/28565  
;; PRIOR FILING DATE: 1999-12-02  
;; PRIOR APPLICATION NUMBER: PCT/US99/30095  
;; PRIOR FILING DATE: 1999-12-16  
;; PRIOR APPLICATION NUMBER: PCT/US99/30911  
;; PRIOR FILING DATE: 1999-12-20  
;; PRIOR APPLICATION NUMBER: PCT/US99/30999  
;; PRIOR FILING DATE: 1999-12-20  
;; PRIOR APPLICATION NUMBER: PCT/US00/00219  
;; PRIOR FILING DATE: 2000-01-05  
;; NUMBER OF SEQ ID NOS: 423  
;; SEQ ID NO 64  
;; LENGTH: 312  
;; TYPE: PRT  
;; ORGANISM: Homo sapiens  
US-09-902-736A-64

Query Match 100.0%; Score 1605; DB 2; Length 312;  
Best Local Similarity 100.0%; Pred. No. 9.1e-149; Indels 0; Gaps 0;  
Matches 312; Conservative 0; Mismatches 0;  
Qy 1 MARRSRHLLLLRLYLVALGYHKAFSAPKQDVVTAVEYQEAIIACKTPKKTSSR 60

Db 1 MARSRRLLLLLLRLYLVALGYHKAIGFSAKDDQVVTAVEYQEAAILACKTPKKTVSSR 60  
Qy 61 LEWKKLGRSVFVYYQOTLQDGFKNRAEMIDFNIRIKNVTRSDAGKYRCEVSAPSEQON 120  
Db 61 LEWKKLGRSVFVYYQOTLQDGFKNRAEMIDFNIRIKNVTRSDAGKYRCEVSAPSEQON 120  
Qy 121 LEEDTVTLVLVAPVPSCEVPSSALSGTVVVELRCQDKEGPNPAPEYTWFKDGIRLLENPR 180  
Db 121 LEEDTVTLVLVAPVPSCEVPSSALSGTVVVELRCQDKEGPNPAPEYTWFKDGIRLLENPR 180  
Qy 181 LGSOSTNSSYTMNTKTGTLOFNTVSKLDTGEYSCEARNVSGYRRCPCGKRMQVDDLNISGI 240  
Db 181 LGSOSTNSSYTMNTKTGTLOFNTVSKLDTGEYSCEARNVSGYRRCPCGKRMQVDDLNISGI 240  
Qy 241 IAAVVVALVSVCGLVGCYQAQRKGYSKETSFOKSNSSSKATTMSENVQWLTPTVIPALW 300  
Db 241 IAAVVVALVSVCGLVGCYQAQRKGYSKETSFOKSNSSSKATTMSENVQWLTPTVIPALW 300  
Qy 301 KAAAGGSRGQEF 312  
Db 301 KAAAGGSRGQEF 312

RESULT 15  
US-09-906-722A-64  
; Sequence 64, Application US/09906722A  
; Patent No. 6946262  
; GENERAL INFORMATION:  
; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Botstein, David  
; APPLICANT: Desnovers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, A.  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, Christopher J.  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth, J.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Mather, Jennie P.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William, I.

; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE REFERENCE: GNE.16182C61  
; CURRENT APPLICATION NUMBER: US/09/906,722A  
; CURRENT FILING DATE: 2001-07-16  
; PRIOR APPLICATION NUMBER: PCT/US00/04414  
; PRIOR FILING DATE: 2000-02-22  
; PRIOR APPLICATION NUMBER: US 60/143,048  
; PRIOR FILING DATE: 1999-07-07  
; PRIOR APPLICATION NUMBER: US 60/145,698  
; PRIOR FILING DATE: 1999-07-26  
; PRIOR APPLICATION NUMBER: US 60/146,222  
; PRIOR FILING DATE: 1999-07-28  
; PRIOR APPLICATION NUMBER: PCT/US99/20594  
; PRIOR FILING DATE: 1999-09-08  
; PRIOR APPLICATION NUMBER: PCT/US99/20944  
; PRIOR FILING DATE: 1999-09-13  
; PRIOR APPLICATION NUMBER: PCT/US99/21090  
; PRIOR FILING DATE: 1999-09-15

; PRIOR APPLICATION NUMBER: PCT/US99/21547  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/23089  
; PRIOR FILING DATE: 1999-10-05  
; PRIOR APPLICATION NUMBER: PCT/US99/28214  
; PRIOR FILING DATE: 1999-11-29  
; PRIOR APPLICATION NUMBER: PCT/US99/28313  
; PRIOR FILING DATE: 1999-11-30  
; PRIOR APPLICATION NUMBER: PCT/US99/28564  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/28565  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/30095  
; PRIOR FILING DATE: 1999-12-16  
; PRIOR APPLICATION NUMBER: PCT/US99/30911  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US99/30999  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US00/00219  
; PRIOR FILING DATE: 2000-01-05  
; NUMBER OF SEQ ID NOS: 423  
; SEQ ID NO 64  
; LENGTH: 312  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-906-722A-64

Query Match 100.0%; Score 1605; DB 2; Length 312;  
Best Local Similarity 100.0%; Pred. No. 9.1e-149; Indels 0; Gaps 0;  
Matches 312; Conservative 0; Mismatches 0;  
Qy 1 MARSRRLLLLLLRLYLVALGYHKAIGFSAKDDQVVTAVEYQEAAILACKTPKKTVSSR 60  
Db 1 MARSRRLLLLLLRLYLVALGYHKAIGFSAKDDQVVTAVEYQEAAILACKTPKKTVSSR 60  
Qy 61 LEWKKLGRSVFVYYQOTLQDGFKNRAEMIDFNIRIKNVTRSDAGKYRCEVSAPSEQON 120  
Db 61 LEWKKLGRSVFVYYQOTLQDGFKNRAEMIDFNIRIKNVTRSDAGKYRCEVSAPSEQON 120  
Qy 121 LEEDTVTLVLVAPVPSCEVPSSALSGTVVVELRCQDKEGPNPAPEYTWFKDGIRLLENPR 180  
Db 121 LEEDTVTLVLVAPVPSCEVPSSALSGTVVVELRCQDKEGPNPAPEYTWFKDGIRLLENPR 180  
Qy 181 LGSOSTNSSYTMNTKTGTLOFNTVSKLDTGEYSCEARNVSGYRRCPCGKRMQVDDLNISGI 240  
Db 181 LGSOSTNSSYTMNTKTGTLOFNTVSKLDTGEYSCEARNVSGYRRCPCGKRMQVDDLNISGI 240  
Qy 241 IAAVVVALVSVCGLVGCYQAQRKGYSKETSFOKSNSSSKATTMSENVQWLTPTVIPALW 300  
Db 241 IAAVVVALVSVCGLVGCYQAQRKGYSKETSFOKSNSSSKATTMSENVQWLTPTVIPALW 300  
Qy 301 KAAAGGSRGQEF 312  
Db 301 KAAAGGSRGQEF 312

Search completed: December 6, 2005, 13:32:56  
Job time : 48 secs

**This Page Blank (uspto)**



GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: December 6, 2005, 13:11:03 ; Search time 189 Seconds  
(without alignments)  
725.324 Million cell updates/sec

Title: US-10-785-607B-9  
Perfect score: 1605  
Sequence: 1 MARRSRHRLLLRLYLVA.....TFVIPALWKAAGSGRGQEF 312

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2443163 seqs, 439378781 residues

Total number of hits satisfying chosen parameters: 2443163

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : A\_Geneseq\_21.\*  
1: Geneseqp1980s.\*  
2: Geneseqp1990s.\*  
3: Geneseqp2000s.\*  
4: Geneseqp2001s.\*  
5: Geneseqp2002s.\*  
6: Geneseqp2003as.\*  
7: Geneseqp2003bs.\*  
8: Geneseqp2004s.\*  
9: Geneseqp2005s.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1605	100.0	312	2 AAY23324	Aay23324 A33 relat
2	1605	100.0	312	2 AAY08060	Aay08060 Human PRO
3	1605	100.0	312	2 AAY13354	Aay13354 Amino aci
4	1605	100.0	312	3 AAB33421	Aab33421 Human PRO
5	1605	100.0	312	3 AAY70668	Aay70668 Human PRO
6	1605	100.0	312	3 AAB24401	Aab24401 Human PRO
7	1605	100.0	312	3 ADC78384	Adc78384 Human PRO
8	1605	100.0	312	4 AAB80222	Aab80222 Human PRO
9	1605	100.0	312	4 AAU00821	Aau00821 Human mm
10	1605	100.0	312	4 AAU12339	Aau12339 Human PRO
11	1605	100.0	312	4 AAB53081	Aab53081 Human ang
12	1605	100.0	312	6 ABU71600	Abu71600 Human PRO
13	1605	100.0	312	6 ABO17783	Abol17783 Novel hum
14	1605	100.0	312	6 ABO71455	Abol71455 Human PRO
15	1605	100.0	312	6 ABU81037	Abu81037 Human PRO
16	1605	100.0	312	6 ABU71901	Abu71901 Human sec
17	1605	100.0	312	6 ABO01784	Abol01784 Novel hum
18	1605	100.0	312	6 ABU66737	Abu66737 Human PRO
19	1605	100.0	312	6 ABU54357	Abu54357 Human sec
20	1605	100.0	312	6 ABO47372	Abol47372 Human sec
21	1605	100.0	312	6 ABU59818	Abu59818 Novel sec
22	1605	100.0	312	6 ABO25008	Abol25008 Human sec
23	1605	100.0	312	6 ABU64509	Abu64509 Human sec
24	1605	100.0	312	6 ABU67355	Abu67355 Human sec

25	1605	100.0	312	6 ABO14875	Abol14875 Human sec
26	1605	100.0	312	6 ABU07738	Abu07738 Human A-3
27	1605	100.0	312	6 ABU67013	Abu67013 Human sec
28	1605	100.0	312	6 ABU69632	Abu69632 Novel hum
29	1605	100.0	312	6 ABO14814	Abol14814 Human sec
30	1605	100.0	312	6 ADA45855	Ada45855 Novel hum
31	1605	100.0	312	6 ADA76286	Ada76286 Human PRO
32	1605	100.0	312	6 ADB29269	Adb29269 Human sec
33	1605	100.0	312	6 ADA18936	Ada18936 Human PRO
34	1605	100.0	312	6 ADA61559	Ada61559 Homo sapi
35	1605	100.0	312	6 ADB19344	Adb19344 Novel hum
36	1605	100.0	312	6 ADB27885	Adb27885 Human PRO
37	1605	100.0	312	6 ADA86364	Ada86364 Novel hum
38	1605	100.0	312	6 ADB15928	Adb15928 Human PRO
39	1605	100.0	312	6 ADA47714	Ada47714 Human PRO
40	1605	100.0	312	6 ADA18125	Ada18125 Human sec
41	1605	100.0	312	6 ABO32766	Abol32766 Human sec
42	1605	100.0	312	6 ADA67509	Ada67509 Human PRO
43	1605	100.0	312	6 ADB30516	Adb30516 Human PRO
44	1605	100.0	312	6 ADA85812	Ada85812 Novel hum
45	1605	100.0	312	6 ADA97024	Ada97024 Human PRO

ALIGNMENTS

RESULT 1  
AAY23324  
ID AAY23324 standard; protein; 312 AA.  
XX  
AC AAY23324;  
XX  
DT 02-SEP-1999 (first entry)  
XX  
DE A33 related antigen PRO245.  
XX  
KW A33 related antigen; PRO301; PRO362; PRO245; inflammatory disease; tumour.  
XX  
OS Homo sapiens.  
XX  
PN WO9927098-A2.  
XX  
PD 03-JUN-1999.  
XX  
PF 20-NOV-1998; 98WO-US024855.  
XX  
PR 21-NOV-1997; 97US-0066364P.  
PR 20-MAR-1998; 98US-0078936P.  
PR 17-SEP-1998; 98WO-US019437.  
XX (GETH ) GENENTECH INC.  
PI Ashkenazi A, Fong S, Goddard A, Gurney AL, Napier MA, Tumas D; Wood WI;  
PI WPI; 1999-404743/34.  
DR N-PSDB; AAX81770.  
XX  
XX Antigen PRO301, PRO362 and PRO245 related to A33.  
XX Example 3; Fig 11; 122pp; English.  
XX The specification describes A33 related antigens PRO301, PRO362 and PRO245. The methods and compositions of the invention are useful for the treatment and diagnosis of inflammatory disease and tumours in mammals. Such inflammatory diseases include of inflammatory bowel disease, CC systemic lupus erythematosus, rheumatoid arthritis, juvenile chronic CC arthritis, spondyloarthropathies, systemic sclerosis, scleroderma, CC idiopathic inflammatory myopathies, dermatomyositis, polymyositis, CC Sjogren's syndrome, systemic vasculitis, sarcoidosis, autoimmune hemolytic CC anemia, immune pancytopenia, paroxysmal nocturnal hemoglobinuria, CC autoimmune thrombocytopenia, idiopathic thrombocytopenic purpura, immune-

CC mediated thrombocytopenia, thyroiditis, Grave's disease, Hashimoto's  
 CC thyroiditis, juvenile lymphocytic thyroiditis, atrophic thyroiditis,  
 CC diabetes mellitus, immune-mediated renal disease, glomerulonephritis,  
 CC tubulointerstitial nephritis, demyelinating diseases of the central and  
 CC peripheral nervous systems such as multiple sclerosis, idiopathic  
 CC polyneuropathy, hepatobiliary diseases, infectious hepatitis A, B, C, D,  
 CC E, nonhepatotropic viruses, autoimmune chronic active hepatitis, primary  
 CC biliary cirrhosis, granulomatous hepatitis, sclerosing cholangitis,  
 CC inflammatory and fibrotic lung diseases, gluten-sensitive enteropathy,  
 CC Whipple's disease, autoimmune or immune-mediated skin diseases allergic  
 CC diseases of the lung such as eosinophilic pneumonias, idiopathic  
 CC pulmonary fibrosis and hypersensitivity pneumonitis transplantation  
 CC associated diseases disease. The present sequence represents PRO245  
 XX  
 SQ Sequence 312 AA;

Query Match 100.0%; Score 1605; DB 2; Length 312;  
 Best Local Similarity 100.0%; Pred. No. 5.2e-123;  
 Matches 312; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MARRSRRLRLLLRLYLWALGYHKAYGFSAPKQQQVVTAVEYQEAIALACKTPKKTYSR 60  
 Db 1 MARRSRRLRLLLRLYLWALGYHKAYGFSAPKQQQVVTAVEYQEAIALACKTPKKTYSR 60  
 Qy 61 LEWKKLGRSVFVYQQTLQDGFKNRAEMIDFNIRIKNVTSDAGKYRCEVSAPSEOGQN 120  
 Db 61 LEWKKLGRSVFVYQQTLQDGFKNRAEMIDFNIRIKNVTSDAGKYRCEVSAPSEOGQN 120  
 Qy 121 LEEDTTLVLVAPVSPCEVPSSALSCTGVVVELRCQDKEGNPAPEYTFWKGIRLLENPR 180  
 Db 121 LEEDTTLVLVAPVSPCEVPSSALSCTGVVVELRCQDKEGNPAPEYTFWKGIRLLENPR 180  
 Qy 181 LGSOSTSSVTMTKGTGLQNTVSKLDTGYSCEARNSVGYRCPGKMQVDLNTSGI 240  
 Db 181 LGSOSTSSVTMTKGTGLQNTVSKLDTGYSCEARNSVGYRCPGKMQVDLNTSGI 240  
 Qy 241 IAAVVVALVSVGLGVCYQAKRGYFSKETFSFKNSNSSKATTMSENVQWLTPTVIALW 300  
 Db 241 IAAVVVALVSVGLGVCYQAKRGYFSKETFSFKNSNSSKATTMSENVQWLTPTVIALW 300  
 Qy 301 KAAAGGSRGQEF 312  
 Db 301 KAAAGGSRGQEF 312

RESULT 2  
 AAY08060  
 ID AAY08060 standard; protein; 312 AA.

XX AAY08060;  
 AC AAY08060;  
 XX  
 DT 11-SEP-2000 (first entry)  
 XX  
 DE Human PRO245 protein.  
 XX  
 KW Inflammatory cell infiltration; immune response; T cell proliferation;  
 KW anti-inflammatory; anti-autoimmune; anti-diabetic; spondyloarthropathy;  
 KW T cell-mediated disease; spondyloarthropathy; sclerosis; renal disease;  
 KW inflammatory myopathy; hemolytic anemia; thrombocytopenia; thyroiditis;  
 KW diabetes mellitus; demyelinating polyneuropathy; Guillain-Barre syndrome;  
 KW multiple sclerosis; polyneuropathy; hepatitis; cirrhosis; enteropathy;  
 KW sclerosing cholangitis; inflammatory bowel disease; Whipple's disease;  
 KW skin disease; dermatitis; psoriasis; asthma; allergic rhinitis; tumor;  
 KW food hypersensitivity; urticaria; eosinophilic pneumonia; transplant;  
 KW idiopathic pulmonary fibrosis; graft rejection; PRO245; human.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO9914241-A2.  
 XX  
 PD 25-MAR-1999.  
 XX  
 PF 17-SEP-1998; 98WO-US019437.

XX 17-SEP-1997; 97US-0059119P.  
 PR 18-SEP-1997; 97US-0059263P.  
 PR 28-OCT-1997; 97US-0063550P.  
 PR 12-NOV-1997; 97US-0065186P.  
 PR 21-NOV-1997; 97US-0066364P.  
 PR 24-NOV-1997; 97US-0066770P.  
 PR 04-JUN-1998; 98US-0088026P.  
 XX (GETH ) GENENTECH INC.  
 PA Fong S, Goddard A, Gurney AL, Tumas D, Wood WI;  
 PI WPI: 1999-229495/19.  
 XX N-PSDB; AAX37664.  
 DR  
 DR  
 XX  
 PT Composition containing novel polypeptide PRO245, its agonist or  
 PT antagonist.  
 XX  
 PS Example 1; Fig 2; 177pp; English.

XX This invention describes a novel composition containing (apart from a  
 CC carrier or excipient), a novel PRO245 polypeptide (I), its agonist or  
 CC antagonist, or their fragments, for modulating: (i) infiltration of  
 CC inflammatory cells into tissue; (ii) an immune response; or (iii) T cell  
 CC proliferation. The composition increases or decreases any of the effects  
 CC (i)-(iii). The products of the invention have anti-inflammatory, anti-  
 CC autoimmune and anti-diabetic activity. (I), and its (ant)agonists and  
 CC their fragments, are used to treat immune-related diseases, particularly  
 CC T cell-mediated diseases. The diseases treated include systemic lupus  
 CC erythematosus, rheumatoid arthritis, juvenile chronic arthritis,  
 CC spondyloarthropathies, systemic sclerosis (scleroderma), idiopathic  
 CC inflammatory myopathies (dermatomyositis, polymyositis), Sjogren's  
 CC syndrome, systemic vasculitis, sarcoidosis, autoimmune hemolytic anemia  
 CC (immune pancytopenia, paroxysmal nocturnal hemoglobinuria), autoimmune  
 CC thrombocytopenia (idiopathic thrombocytopenic purpura immune-mediated  
 CC thrombocytopenia), thyroiditis (Grave's disease, Hashimoto's thyroiditis,  
 CC juvenile lymphocytic thyroiditis, atrophic thyroiditis), diabetes  
 CC mellitus, immune-mediated renal disease (glomerulonephritis,  
 CC tubulointerstitial nephritis), multiple sclerosis, idiopathic  
 CC demyelinating polyneuropathy, Guillain-Barre syndrome, chronic  
 CC inflammatory demyelinating polyneuropathy, infectious hepatitis  
 CC (hepatitis A, B, C, D, E and other non-hepatotropic viruses), autoimmune  
 CC hepatitis, and sclerosing cholangitis, inflammatory bowel disease  
 CC (ulcerative colitis; Crohn's disease), gluten-sensitive enteropathy, and  
 CC Whipple's disease. Autoimmune or immune-mediated skin diseases including  
 CC bullous skin diseases, erythema multiforme, contact dermatitis, psoriasis,  
 CC asthma, allergic rhinitis, atopic dermatitis, food hypersensitivity,  
 CC urticaria, eosinophilic pneumonia, idiopathic pulmonary fibrosis,  
 CC hypersensitivity pneumonitis, and transplantation associated diseases  
 CC (graft rejection, and graft-versus-host-disease). (I), its (ant)agonists  
 CC or fragment can also be used as an adjuvant in treatment of tumors.  
 CC Antibodies against (I) can also be used for diagnosing such diseases.  
 CC This sequence represents the human PRO245 protein described in the  
 CC invention

XX Sequence 312 AA;

Query Match 100.0%; Score 1605; DB 2; Length 312;  
 Best Local Similarity 100.0%; Pred. No. 5.2e-123;  
 Matches 312; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 Qy 1 MARRSRRLRLLLRLYLWALGYHKAYGFSAPKQQQVVTAVEYQEAIALACKTPKKTYSR 60  
 Db 1 MARRSRRLRLLLRLYLWALGYHKAYGFSAPKQQQVVTAVEYQEAIALACKTPKKTYSR 60  
 Qy 61 LEWKKLGRSVFVYQQTLQDGFKNRAEMIDFNIRIKNVTSDAGKYRCEVSAPSEOGQN 120  
 Db 61 LEWKKLGRSVFVYQQTLQDGFKNRAEMIDFNIRIKNVTSDAGKYRCEVSAPSEOGQN 120  
 Qy 121 LEEDTTLVLVAPVSPCEVPSSALSCTGVVVELRCQDKEGNPAPEYTFWKGIRLLENPR 180

Db 121 LEEDTVTLVLVAPVPSCEVPSSALSCTVTVLRCQDKEGNPAPETWFKDGIRLLENPR 180  
QY 181 LGSQSTNSSYTMNTKTGTLQFNTVSKLDTGEYSCEARNISVGYRRCPCGKRMQVDDLNISGI 240  
Db 181 LGSQSTNSSYTMNTKTGTLQFNTVSKLDTGEYSCEARNISVGYRRCPCGKRMQVDDLNISGI 240  
QY 241 TAAVVVVVALVSVCGLGVCYACQKGYFSKETSFKSKNSSSKATTMSENQVQMLTPVPIPALW 300  
Db 241 TAAVVVVVALVSVCGLGVCYACQKGYFSKETSFKSKNSSSKATTMSENQVQMLTPVPIPALW 300  
QY 301 KAAAGSGRGOEF 312  
Db 301 KAAAGSGRGOEF 312  
RESULT 3  
ID AAY13354 standard; protein; 312 AA.  
XX AAY13354;  
AC AAY13354;  
XX  
DT 25-JUN-1999 (first entry)  
XX  
XX Amino acid sequence of protein PRO245.  
DE  
XX Secreted protein; transmembrane protein; human; enterocolitis;  
KW Zollinger-Ellison syndrome; gastrointestinal ulceration;  
KW congenital microvillus atrophy; skin disease; cell growth;  
KW abnormal keratinocyte differentiation; psoriasis; epithelial cancer;  
KW Parkinson's disease; Alzheimer's disease; ALS; neuropathy; fibromodulin;  
KW dermal scarring; Usher Syndrome; Atrophla areata; anti-thrombotic;  
KW wound healing; tissue repair.  
XX  
XX Homo sapiens.  
OS  
XX WO9914328-A2.  
PN  
XX 25-MAR-1999.  
PD  
XX 16-SEP-1998; 98WO-US019330.  
PF  
XX 17-SEP-1997; 97US-0059113P.  
PR 17-SEP-1997; 97US-0059113P.  
PR 17-SEP-1997; 97US-0059117P.  
PR 17-SEP-1997; 97US-0059119P.  
PR 17-SEP-1997; 97US-0059121P.  
PR 17-SEP-1997; 97US-0059122P.  
PR 17-SEP-1997; 97US-0059124P.  
PR 17-SEP-1997; 97US-0059184P.  
PR 18-SEP-1997; 97US-0059263P.  
PR 18-SEP-1997; 97US-0059266P.  
PR 15-OCT-1997; 97US-0062125P.  
PR 17-OCT-1997; 97US-0062285P.  
PR 17-OCT-1997; 97US-0062287P.  
PR 21-OCT-1997; 97US-0063486P.  
PR 24-OCT-1997; 97US-0062814P.  
PR 24-OCT-1997; 97US-0062816P.  
PR 24-OCT-1997; 97US-0063045P.  
PR 24-OCT-1997; 97US-0063120P.  
PR 24-OCT-1997; 97US-0063121P.  
PR 24-OCT-1997; 97US-0063127P.  
PR 24-OCT-1997; 97US-0063128P.  
PR 27-OCT-1997; 97US-0063327P.  
PR 27-OCT-1997; 97US-0063329P.  
PR 28-OCT-1997; 97US-0063541P.  
PR 28-OCT-1997; 97US-0063542P.  
PR 28-OCT-1997; 97US-0063544P.  
PR 28-OCT-1997; 97US-0063549P.  
PR 28-OCT-1997; 97US-0063550P.  
PR 28-OCT-1997; 97US-0063564P.  
PR 29-OCT-1997; 97US-0063435P.  
PR 29-OCT-1997; 97US-0063704P.  
PR 29-OCT-1997; 97US-0063732P.  
PR 29-OCT-1997; 97US-0063734P.

PR 29-OCT-1997; 97US-0063735P.  
PR 29-OCT-1997; 97US-0063738P.  
PR 29-OCT-1997; 97US-0064215P.  
PR 31-OCT-1997; 97US-0063870P.  
PR 31-OCT-1997; 97US-0064103P.  
PR 03-NOV-1997; 97US-0064248P.  
PR 07-NOV-1997; 97US-0064809P.  
PR 12-NOV-1997; 97US-0065186P.  
PR 17-NOV-1997; 97US-0065846P.  
PR 18-NOV-1997; 97US-0065693P.  
PR 21-NOV-1997; 97US-0066120P.  
PR 21-NOV-1997; 97US-0066364P.  
PR 24-NOV-1997; 97US-0066453P.  
PR 24-NOV-1997; 97US-0066511P.  
PR 24-NOV-1997; 97US-0066770P.  
PR 24-NOV-1997; 97US-0066772P.  
PR 25-NOV-1997; 97US-0066840P.  
XX  
XX (GETH ) GENENTECH INC.  
XX  
XX Wood WI, Gurney AL, Goddard A, Pennica D, Chen J, Yuan J;  
XX  
XX WPI; 1999-229533/19.  
DR N-PSDB; AAX52225.  
XX  
XX New isolated human genes and polypeptides used in, e.g. treatment of  
XX gastrointestinal ulceration.  
PS Claim 12; Fig 24; 320pp; English.  
XX  
XX AAY13344-403 represent secreted and transmembrane human proteins. The  
XX cDNA sequences are obtained from cDNA libraries, prepared from fetal  
XX lung, fetal kidney, fetal brain, fetal liver and fetal retina. The  
XX encoded polypeptides have specific uses based on their homology to known  
XX polypeptides, e.g. PRO211 and PRO217 can be used for disorders associated  
XX with the preservation and maintenance of gastrointestinal mucosa and the  
XX repair of acute and chronic mucosal lesions (e.g. enterocolitis,  
XX Zollinger-Ellison syndrome, gastrointestinal ulceration and congenital  
XX microvillus atrophy), skin diseases associated with abnormal keratinocyte  
XX differentiation (e.g. psoriasis, epithelial cancers such as lung squamous  
XX cell carcinoma of the vulva and gliomas), potent effects on cell growth  
XX and development, diseases related to growth or survival of nerve cells  
XX including Parkinson's disease, Alzheimer's disease, ALS, neuropathies or  
XX cancer. PRO265 can be used as for fibromodulin, e.g. for reducing dermal  
XX scarring. PRO264 can be used as a target for anti-tumor drugs. PRO533 may  
XX be used in the treatment of Usher Syndrome or Atrophla areata; PRO269 can  
XX be used as an anti-thrombotic agent; PRO287 polypeptides and portions may  
XX have therapeutic applications in wound healing and tissue repair; PRO317  
XX can be used for treating problems of the kidney, uterus, endometrium,  
XX blood vessels, or related tissue, e.g. in the heart of genital tract  
XX  
SQ Sequence 312 AA;  
Query Match 100.0%; Score 1605; DB 2; Length 312;  
Best Local Similarity 100.0%; Pred. No. 5.2e-123;  
Matches 312; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MARRSRHRLLLRLYLVALGYHKAQGFSAKQOQVTVAVEYQAILACKTPKKTVSSR 60  
Db 1 MARRSRHRLLLRLYLVALGYHKAQGFSAKQOQVTVAVEYQAILACKTPKKTVSSR 60  
QY 61 LEWKKLGRSVFVYQOQLQDFKNRAEMIDFNIRIKNVTNRSDAKYCEVSAPSEQON 120  
Db 61 LEWKKLGRSVFVYQOQLQDFKNRAEMIDFNIRIKNVTNRSDAKYCEVSAPSEQON 120  
QY 121 LEEDTVTLVLVAPVPSCEVPSSALSCTVTVLRCQDKEGNPAPETWFKDGIRLLENPR 180  
Db 121 LEEDTVTLVLVAPVPSCEVPSSALSCTVTVLRCQDKEGNPAPETWFKDGIRLLENPR 180  
QY 181 LGSQSTNSSYTMNTKTGTLQFNTVSKLDTGEYSCEARNISVGYRRCPCGKRMQVDDLNISGI 240  
Db 181 LGSQSTNSSYTMNTKTGTLQFNTVSKLDTGEYSCEARNISVGYRRCPCGKRMQVDDLNISGI 240

```

QY 241 IAAVVVALVSVGLGVCYQKRGYSKETSFKSNSSSKATTMSNVOLTPVIPALW 300
Db 241 IAAVVVALVSVGLGVCYQKRGYSKETSFKSNSSSKATTMSNVOLTPVIPALW 300

QY 301 KAAAGGSRGQEF 312
Db 301 KAAAGGSRGQEF 312

RESULT 4
AAB33421
ID AAB33421 standard; protein; 312 AA.
XX
AC AAB33421;
XX
DT 29-JAN-2001 (first entry)
XX
DE Human PRO245 protein UNQ219 SEQ ID NO:36.
XX
KW Human; immune related disease; diagnosis; antinflammatory; cardiant;
KW dermatological; antiarthritic; antirheumatic; immunosuppressive;
KW haemostatic; antihypertoid; antidiabetic; nootropic; neuroprotective;
KW antianemic; hepatotropic; virucide; antiporiatic; antiallergic;
KW antiasthmatic; systemic lupus erythematosus; rheumatoid arthritis;
KW osteoarthritis; spondyloarthropathy; systemic sclerosis; sarcoidosis;
KW idiopathic inflammatory myopathy; Sjogren's syndrome; thyroiditis;
KW systemic vasculitis; autoimmune haemolytic anaemia; diabetes mellitus;
KW autoimmune thrombocytopaenia; immune-mediated renal disease;
KW demyelinating disease; hepatobiliary disease; Whipple's disease;
KW inflammatory bowel disease; Gluten-sensitive enteropathy;
KW autoimmune disease; immune-mediated skin disease; allergic disease;
KW immunological disease; transplantation associated disease;
KW graft rejection; graft-versus-host-disease.
XX
OS Homo sapiens.
XX
PN WO200053758-A2.
XX
PD 14-SEP-2000.
XX
PF 02-MAR-2000; 200WO-US005841.
XX
PR 08-MAR-1999; 99WO-US005028.
PR 10-MAR-1999; 99US-0123618P.
PR 12-MAR-1999; 99US-0123957P.
PR 23-MAR-1999; 99US-0125775P.
PR 12-APR-1999; 99US-0128849P.
PR 20-APR-1999; 99WO-US008615.
PR 28-APR-1999; 99US-0131445P.
PR 04-MAY-1999; 99US-0132371P.
PR 14-MAY-1999; 99US-0134287P.
PR 02-JUN-1999; 99WO-US012252.
PR 23-JUN-1999; 99US-0141037P.
PR 20-JUL-1999; 99US-0144758P.
PR 26-JUL-1999; 99US-0145698P.
PR 28-JUL-1999; 99US-0146222P.
PR 01-SEP-1999; 99WO-US020111.
PR 08-SEP-1999; 99WO-US020594.
PR 13-SEP-1999; 99WO-US020944.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 05-OCT-1999; 99WO-US023089.
PR 29-OCT-1999; 99US-0162506P.
PR 29-NOV-1999; 99WO-US028214.
PR 30-NOV-1999; 99WO-US028313.
PR 30-NOV-1999; 99WO-US028409.
PR 01-DEC-1999; 99WO-US028301.
PR 01-DEC-1999; 99WO-US028634.
PR 02-DEC-1999; 99WO-US028551.
PR 02-DEC-1999; 99WO-US028564.
PR 02-DEC-1999; 99WO-US028565.
PR 16-DEC-1999; 99WO-US030095.

```

```

PR 20-DEC-1999; 99WO-US030999.
PR 30-DEC-1999; 99WO-US031274.
PR 05-JAN-2000; 200WO-US000219.
PR 06-JAN-2000; 200WO-US000277.
PR 06-JAN-2000; 200WO-US000376.
PR 11-FEB-2000; 200WO-US003565.
PR 18-FEB-2000; 200WO-US004341.
PR 18-FEB-2000; 200WO-US004342.
PR 22-FEB-2000; 200WO-US004414.
XX
PA (GETH ) GENENTECH INC.
XX
PI Aehkenazi AJ, Baker KP, Goddard A, Gurney AL, Hebert C, Henzel W;
PI Kabakoff RC, Lu Y, Pan J, Pennica D, Shelton DL, Smith V;
PI Stewart TA, Tumas D, Watanabe CK, Wood WI, Yan M;
XX
DR WPI; 2000-572271/53.
DR N-PSDB; AAC58586.
XX
PT Sixty four PRO polypeptides, useful in the diagnosis and treatment of
PT immune related disorders, e.g. systemic lupus erythematosus, rheumatoid
PT arthritis, osteoarthritis, thyroiditis and diabetes mellitus.
XX
PS Claim 33; Fig 16; 309pp; English.
XX
CC The present invention describes sixty four human PRO proteins which can
CC be used in the treatment of immune related diseases. The human PRO
CC proteins, anti-PRO antibodies, agonists and antagonists are useful for
CC treating and diagnosing immune related disorders. The disorders are
CC selected from systemic lupus erythematosus, rheumatoid arthritis,
CC osteoarthritis, juvenile chronic arthritis, spondyloarthropathies,
CC systemic sclerosis, idiopathic inflammatory myopathies, Sjogren's
CC syndrome, systemic vasculitis, sarcoidosis, autoimmune haemolytic
CC anaemia, autoimmune thrombocytopaenia, thyroiditis, diabetes mellitus,
CC immune-mediated renal disease, demyelinating diseases of the central and
CC peripheral nervous systems, hepatobiliary diseases, inflammatory bowel
CC disease, gluten-sensitive enteropathy and Whipple's disease, autoimmune
CC or immune-mediated skin diseases, allergic diseases, immunological
CC diseases of the lung, and transplantation associated diseases including
CC graft rejection and graft-versus-host-disease. AAC58397 to AAC58578
CC represent PCR primers and hybridisation probes used in the isolation of
CC human PRO sequences. AAC58579 to AAC58642 and AAB33414 to AAB33477
CC represent human PRO polynucleotide and protein sequences given in the
CC exemplification of the present invention
XX
SQ Sequence 312 AA;
Query Match 100.0%; Score 1605; DB 3; Length 312;
Best Local Similarity 100.0%; Pred. No. 5.2e-123;
Matches 312; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MARRSRHRLLLRLYLVLVALGKAYGFSAPKDDQVVTAVEYQEAIALACKTPKKTVSSR 60
Db 1 MARRSRHRLLLRLYLVLVALGKAYGFSAPKDDQVVTAVEYQEAIALACKTPKKTVSSR 60
QY 61 LEWKUGRSVSFVYQQTLOGDFKNRAEMDFIRIKNVTRSDAGKYRCEVSAEQQON 120
Db 61 LEWKUGRSVSFVYQQTLOGDFKNRAEMDFIRIKNVTRSDAGKYRCEVSAEQQON 120
QY 121 LEEDTVTLVLVAPVAPVPSCEVPSSALSGTVTVLRCDKEGNPAPEYTFWKDGRLLLENPR 180
Db 121 LEEDTVTLVLVAPVAPVPSCEVPSSALSGTVTVLRCDKEGNPAPEYTFWKDGRLLLENPR 180
QY 181 LGSQSTNSSYTMNTKTGTLQFNVTVSKLDTGCEYSCAARNVGYRRCPOKRVQVDDLNSGI 240
Db 181 LGSQSTNSSYTMNTKTGTLQFNVTVSKLDTGCEYSCAARNVGYRRCPOKRVQVDDLNSGI 240
QY 241 IAAVVVALVSVGLGVCYQKRGYSKETSFKSNSSSKATTMSNVOLTPVIPALW 300
Db 241 IAAVVVALVSVGLGVCYQKRGYSKETSFKSNSSSKATTMSNVOLTPVIPALW 300
QY 301 KAAAGGSRGQEF 312
Db 301 KAAAGGSRGQEF 312

```

Db	301 KAAAGSGRGOEF 312	
RESULT 5		
AAV70658		
ID	AAV70668 standard; protein; 312 AA.	
XX	AAV70668;	
AC		
XX	18-JUL-2000 (first entry)	
XX		
XX	Human PRO245 protein. ✓	
XX	PRO245; UNQ219; dermatological; immunosuppressive; antiinflammatory; immunostimulant; antitachymatic; antirheumatic; antiarthritic; virucide; antiallergic; haemostatic; hepatotropic; antidiabetic; antianaemic; nephrotropic; neuroprotective; anticoagulant; immunological disorder; lung; pneumonia; skin; psoriasis; kidney; glomerulonephritis; arthritis; spondyloarthritis; SLE; systemic lupus erythematosus; scleroderma; idiopathic inflammatory myopathy; anaemia; thrombocytopenia; diabetes; thyroiditis; Grave's disease; demyelinating disease; multiple sclerosis; Crohn's disease; hepatobiliary disease; hepatitis; asthma; human; graft-versus-host-disease.	
XX	Homo sapiens.	
OS		
XX		
FH	Key	Location/Qualifiers
FT	Modified-site	39. .43
FT		/note= "Casein Kinase II phosphorylation site"
FT	Modified-site	59. .63
FT		/note= "Casein Kinase II phosphorylation site"
FT	Modified-site	98. .102
FT		/note= "N-glycosylation site"
FT	Modified-site	100. .104
FT		/note= "Casein Kinase II phosphorylation site"
FT	Modified-site	149. .153
FT		/note= "Casein Kinase II phosphorylation site"
FT	Modified-site	182. .188
FT		/note= "N-myristoylation site"
FT	Modified-site	187. .191
FT		/note= "N-glycosylation site"
FT	Modified-site	205. .209
FT		/note= "Casein Kinase II phosphorylation site"
FT	Modified-site	226. .230
FT		/note= "Amidation site"
FT	Modified-site	236. .240
FT		/note= "N-glycosylation site"
FT	Modified-site	239. .245
FT		/note= "N-myristoylation site"
FT	Modified-site	255. .261
FT		/note= "N-myristoylation site"
FT	Modified-site	257. .263
FT		/note= "N-myristoylation site"
FT	Modified-site	277. .281
FT		/note= "N-glycosylation site"
FT	Modified-site	284. .288
FT		/note= "Casein Kinase II phosphorylation site"
FT	Modified-site	305. .311
FT		/note= "N-myristoylation site"
XX		
PN	WO200015797-A2.	
XX		
XX	23-MAR-2000.	
XX		
XX	15-SEP-1999; 99WO-US021547.	
XX		
XX	17-SEP-1998; 98US-0100858P.	
PR		
XX	17-SEP-1998; 98WO-US019437.	
XX		
PA	(GETH ) GENENTECH INC.	
XX		
XX	Fong S, Goddard A, Gurney AL, Tumas D, Wood WI,	
PI		
XX		
DR	WPI; 2000-271435/23.	
DR	N-PSDB; AA252202.	
XX		
PT	Composition for treatment and diagnosis of immune related diseases e.g. Grave's disease comprises a PRO245, PRO217, PRO301, PRO266, PRO335, PRO331 or PRO326 polypeptide or its agonists or antagonists (preferably antibodies).	
PT		
XX		
PS	Example 1; Fig 4; 201pp; English.	
XX		
CC	The present sequence is the human protein PRO245, encoded by UNQ219 cDNA, designated as clone DNA35638. It is isolated from human foetal liver tissue. It has structural homology to transmembrane protein receptor tyrosine kinase family and has 60% amino acid identity with human c-myc protein. It enhances or suppresses the infiltration of inflammatory cells into tissues, proliferation of T-lymphocytes and modulates the immune response. This sequence is useful for treatment of immune related disorders, like SLE, rheumatoid/juvenile arthritis, spondyloarthritis, systemic sclerosis (scleroderma), idiopathic inflammatory myopathies such as dermatomyositis, Sjogren's syndrome, systemic vasculitis, sarcoidosis, autoimmune haemolytic anaemia, thrombocytopenia, thyroiditis e.g. Grave's disease, diabetes mellitus, immune-mediated renal disease e.g. glomerulonephritis, demyelinating diseases such as multiple sclerosis and Guillain-Barre syndrome, hepatobiliary diseases like hepatitis and primary biliary cirrhosis, inflammatory and fibrotic lung diseases such as inflammatory bowel disease (e.g. Crohn's disease), autoimmune or immune-mediated skin diseases such as psoriasis, allergies like asthma, immunological diseases of the lungs such as eosinophilic pneumonia and CC transplantation associated diseases such as graft-versus-host-disease	
XX		
Sequence 312 AA;		
Query Match	100.0%; Score 1605; DB 3; Length 312;	
Best Local Similarity	100.0%; Pred. No. 5.2e-123; Indels 0; Gaps 0;	
Matches 312; Conservative	0; Mismatches 0;	
QY	1 MARSRHRLLLRLYLVALGYHKAYGFSAPKQDQVVTAVEYQEAAILACKTPKKTVSRR 60	
Db	1 MARSRHRLLLRLYLVALGYHKAYGFSAPKQDQVVTAVEYQEAAILACKTPKKTVSRR 60	
QY	61 LEWKLGSRVSFVYQQTLOGDFKNRAEMIDFNIRIKNVTSDAGKYRCEVSAPSEQGN 120	
Db	61 LEWKLGSRVSFVYQQTLOGDFKNRAEMIDFNIRIKNVTSDAGKYRCEVSAPSEQGN 120	
QY	121 LEEDTVTLVLVAPVPSCEVPSSALSGTVVVELRCQKEGPNAPETTFWFGIRLLENPR 180	
Db	121 LEEDTVTLVLVAPVPSCEVPSSALSGTVVVELRCQKEGPNAPETTFWFGIRLLENPR 180	
QY	181 LGSQSTNSSYTMNTKTGTLOFNTVSKLDTGEYSCEARNVSVYRRCPCGRMQVDDLNI 240	
Db	181 LGSQSTNSSYTMNTKTGTLOFNTVSKLDTGEYSCEARNVSVYRRCPCGRMQVDDLNI 240	
QY	241 IAAVVVALVTSVGLGVCAQRKGYSKTSFKSNSSSKATTNSENVQMLTPVIPALW 300	
Db	241 IAAVVVALVTSVGLGVCAQRKGYSKTSFKSNSSSKATTNSENVQMLTPVIPALW 300	
QY	301 KAAAGSGRGOEF 312	
Db	301 KAAAGSGRGOEF 312	
RESULT 6		
AAAB24401		
ID	AAAB24401 standard; protein; 312 AA.	
XX		
AC	AAAB24401;	
XX		
DT	07-NOV-2000 (first entry)	
XX		
DE	Human PRO245 protein sequence SEQ ID NO:67.	
XX		
KW	Human; PRO; promotion; inhibition; angiogenesis; cardiovascularisation; diagnosis; trauma; wound; cancer; atherosclerosis; cardiac hypertrophy;	

angiogenic; proliferative; cardiant; cardiovascular; antiatherosclerotic;  
cytostatic; gene therapy; vaccine.  
Homo sapiens.

WO200032221-A2.

08-JUN-2000.

30-NOV-1999; 99WO-US028313.

01-DEC-1998; 98WO-US025108.

16-DEC-1998; 98US-0112850P.

12-JAN-1999; 99US-0115554P.

08-MAR-1999; 99WO-US005028.

12-MAR-1999; 99US-0123957P.

28-APR-1999; 99US-0131445P.

14-MAY-1999; 99US-0134287P.

02-JUN-1999; 99WO-US012252.

23-JUN-1999; 99US-0141037P.

20-JUL-1999; 99US-0144758P.

26-JUL-1999; 99US-0145698P.

01-SEP-1999; 99WO-US020111.

08-SEP-1999; 99WO-US020594.

13-SEP-1999; 99WO-US020944.

15-SEP-1999; 99WO-US021090.

15-SEP-1999; 99WO-US021547.

05-OCT-1999; 99WO-US023089.

29-OCT-1999; 99US-0162506P.

(GETH ) GENENTECH INC.

Askenazi AJ, Baker KP, Ferrara N, Gerber H, Hillan KJ;

Goddard A, Godowski PJ, Gurney AL, Klein RD, Kuo SS, Paoni NF;

Smith V, Watanabe CK, Williams PM, Wood WI;

WPI; 2000-412154/35.

N-PSDB; AAA77562.

Nucleic acids encoding PRO polypeptides useful for preventing, diagnosing and treating disorders in mammals.

Claim 72; Fig 28; 315pp; English.

The present invention describes nucleic acids encoding PRO polypeptides useful for preventing, diagnosing and treating disorders in mammals by modulating cell proliferation, angiogenesis and cardiovascularization, and for identifying agonists and antagonists of these processes. The nucleic acids and the proteins they encode may be used in the prevention, treatment and diagnosis of diseases associated with inappropriate PRO expression such as cardiovascular, endothelial or angiogenic disorders in mammals (e.g. atherosclerosis, cancers and cardiac hypertrophy). For example, the nucleic acids (NGs) and vectors containing them and the PRO polypeptide may be used to treat disorders associated with decreased PRO expression. AAA77510 to AAA77721 and AAA77438 to AAA77443 represent nucleotide and protein sequences used in the exemplification of the present invention

Sequence 312 AA;

Query Match 100.0%; Score 1605; DB 3; Length 312;  
Best Local Similarity 100.0%; Pred. No. 5.2e-123;  
Matches 312; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
1 MARSRRLRLRLRLRLVVALGYKAYGFSAPKQVQVTVAYEYAILACKTPKKTYSR 60  
1 MARSRRLRLRLRLRLVVALGYKAYGFSAPKQVQVTVAYEYAILACKTPKKTYSR 60  
61 LEWKLGSRVSFVYQQTLOGDFKNRAEMIDFNIRIKNVTSDAGKYRCEVSAPSEQQN 120  
61 LEWKLGSRVSFVYQQTLOGDFKNRAEMIDFNIRIKNVTSDAGKYRCEVSAPSEQQN 120

QY 121 LEEDTVTLVAVAPVSCVPSSALSGTWVLELRCQDKGNPAPETWFKDGIENLNP 180  
DB 121 LEEDTVTLVAVAPVSCVPSSALSGTWVLELRCQDKGNPAPETWFKDGIENLNP 180  
QY 181 LGSQSTNSSTYMTKTGTLOFNTVSKLDTGEYSCEARNVGVRRCPGKRMQVDDLNISGI 240  
DB 181 LGSQSTNSSTYMTKTGTLOFNTVSKLDTGEYSCEARNVGVRRCPGKRMQVDDLNISGI 240  
QY 241 IAAVVVALVISVCGLVGYAQRKGYFSKETSFKQSNSSSKATTMSNVQMLTPVIPALM 300  
DB 241 IAAVVVALVISVCGLVGYAQRKGYFSKETSFKQSNSSSKATTMSNVQMLTPVIPALM 300  
QY 301 KAAAGSGRGQEF 312  
DB 301 KAAAGSGRGQEF 312

RESULT 7

ID ADC78384 standard; protein; 312 AA.

AC ADC78384;

DT 01-JAN-2004 (first entry)

DE Human PRO245 protein.

KW antiinflammatory; antiulcer; cytostatic; antipsoriatic; antiparkinsonian;  
KW neurotrophic; neuroprotective; vasotropic; chemotactic; angiogenic;  
KW neurotrophic; osteopathic; antiaesthetic; antiarthritic; antirheumatic;  
KW antiarteriosclerotic; cardiant; antidiabetic; cerebroprotective; syndrome;  
KW thrombolytic; immunomodulator; enterocolitis; Zollinger-Ellison syndrome;  
KW gastrointestinal ulceration; psoriasis; cancer; Parkinson's disease;  
KW Alzheimer's; ALS; neuropathy; dermal scarring; wound healing;  
KW asthma; rheumatoid arthritis; bone; cartilage formation; angiogenesis;  
KW atherosclerosis; cardiac injury; infertility; premature aging; AIDS;  
KW diabetes; stroke; gene therapy; transgenic; PRO; human.

Homo sapiens.

WO200015796-A2.

PN 23-MAR-2000.

PD 15-SEP-1999; 99WO-US021090.

PR 16-SEP-1998; 98WO-US019330.

PP (GETH ) GENENTECH INC.

PI Chen J, Goddard A, Gurney AL, Hillan K, Pennica D, Wood WI;

PI Yuan J;

PP WPI; 2000-271434/23.

DR N-PSDB; ADC78383.

Novel nucleic acids encoding secreted and transmembrane polypeptides with homology, e.g. to growth and cancer-associated antigens.

Claim 12; SEQ ID NO 64; 355pp; English.

The invention relates to a novel nucleic acid encoding a PRO polypeptide. The polypeptides and polynucleotides of the invention may be useful as research tools and as therapeutics for treating enterocolitis, Zollinger-Ellison syndrome, gastrointestinal ulceration, psoriasis, cancer, Parkinson's disease, Alzheimer's disease, ALS, neuropathies, dermal scarring and wound healing, nerve repair, thrombosis, bone and/or cartilage formation, angiogenesis, asthma, rheumatoid arthritis, multiple sclerosis, inflammatory disorders, atherosclerosis, cardiac injury, infertility, premature aging, AIDS, diabetes complications and stroke. The molecules may also be utilized during gene therapy procedures and





DE	Human immune response protein PRO245 (UNQ219) .
XX	
XX	Human: PRO245; UNQ219; immune response; osteoarthritis;
KW	systemic lupus erythematosus; rheumatoid arthritis; systemic sclerosis;
KW	juvenile chronic arthritis; spondyloarthritis; Sjogren's syndrome;
KW	idiopathic inflammatory myopathy; polymyositis; systemic vasculitis;
KW	sarcoidosis; autoimmune haemolytic anaemia; immune pancytopenia;
KW	autoimmune thrombocytopenia; idiopathic thrombocytopenic purpura;
KW	thyroiditis; Grave's disease; Hashimoto's thyroiditis; diabetes mellitus;
KW	glomerulonephritis; demyelinating disease; multiple sclerosis;
KW	Gullain-Barre syndrome; hepatobiliary disease;
KW	chronic inflammatory demyelinating polyneuropathy; infectious hepatitis;
KW	auto immune chronic active hepatitis; primary biliary cirrhosis;
KW	granulomatous hepatitis; sclerosing cholangitis; ulcerative colitis;
KW	inflammatory bowel disease; Crohn's disease; Whipple's disease;
KW	erythema multiforme; psoriasis; asthma; allergic rhinitis; urticaria;
KW	food hypersensitivity; eosinophilic pneumonia; graft rejection;
KW	idiopathic pulmonary fibrosis; graft-versus-host-disease; immunogen;
XX	antibody.
XX	
OS	Homo sapiens.
XX	
FH	Key Location/Qualifiers
FT	Peptide 1..20
FT	Protein /label= Signal_peptide
FT	21..312
FT	/label= Mature_PRO245
FT	98..102
FT	Modified-site /note= "Asn is N-glycosylated"
FT	182..188
FT	Modified-site /note= "Glycine is N-myristoylated"
FT	187..191
FT	Modified-site /note= "Asn is N-glycosylated"
FT	226..230
FT	Region /label= Amidation_site
FT	236..240
FT	Modified-site /note= "Asn is N-glycosylated"
FT	237..258
FT	Domain /label= Transmembrane_domain
FT	239..245
FT	Modified-site /note= "Glycine is N-myristoylated"
FT	255..261
FT	Modified-site /note= "Glycine at 255 is N-myristoylated"
FT	257..263
FT	Modified-site /note= "Glycine at 257 is N-myristoylated"
FT	277..281
FT	Modified-site /note= "Asn is N-glycosylated"
FT	305..311
FT	Modified-site /note= "Glycine is N-myristoylated"
XX	
PN	WO200119991-A1.
XX	
XX	22-MAR-2001.
XX	
PF	20-MAR-2000; 2000WO-US007377.
XX	
PR	15-SEP-1999; 99WO-US021547.
XX	
XX	(GETH ) GENENTECH INC.
XX	
PI	Fong S, Goddard A, Gurney AL, Hillan KJ, Tumas D, Wood WI;
XX	
XX	WPI; 2001-226823/23.
DR	N-PSDB; AAS00157.
DR	
PT	Composition for diagnosing and treating immune related diseases, e.g.
PT	rheumatoid arthritis and diabetes mellitus, comprises a PRO polypeptide,
PT	agonist, antagonist or fragment.
XX	
XX	Claim 31; Fig 2; 138pp; English.
XX	
XX	The sequence represents Human PRO245 (UNQ219), a protein involved in the
CC	immune response. PRO polypeptides, and (ant)agonists to them, are used in
CC	

CC	compositions for modulating infiltration of inflammatory cells into a
CC	tissue, modulating an immune response and modulating proliferation of T-
CC	lymphocytes in response to an antigen. Immune related diseases can be
CC	treated with the compositions, such as, systemic lupus erythematosus,
CC	rheumatoid arthritis, osteoarthritis, juvenile chronic arthritis,
CC	spondyloarthritis, systemic sclerosis, idiopathic inflammatory
CC	myopathies (e.g. polymyositis), Sjogren's syndrome, systemic vasculitis,
CC	sarcoidosis, autoimmune haemolytic anaemia (e.g. immune pancytopenia),
CC	autoimmune thrombocytopenia (e.g. idiopathic thrombocytopenic purpura),
CC	thyroiditis (e.g. Grave's disease, Hashimoto's thyroiditis), diabetes
CC	mellitus, immune-mediated renal disease (e.g. glomerulonephritis),
CC	demyelinating diseases of the central and peripheral nervous systems e.g.
CC	multiple sclerosis or Guillain-Barre syndrome, and chronic inflammatory
CC	demyelinating polyneuropathy, hepatobiliary diseases such as infectious
CC	hepatitis (hepatitis A, B, C, D, E and other non-hepatotropic viruses),
CC	auto immune chronic active hepatitis, primary biliary cirrhosis,
CC	granulomatous hepatitis, and sclerosing cholangitis, inflammatory bowel
CC	disease (ulcerative colitis, Crohn's disease and Whipple's disease),
CC	autoimmune or immune-mediated skin diseases (e.g. erythema multiforme
CC	and psoriasis), asthma, allergic rhinitis, urticaria, food
CC	hypersensitivity, immunologic diseases of the lung such as eosinophilic
CC	pneumonias, idiopathic pulmonary fibrosis, transplantation associated
CC	diseases including graft-versus-host-disease and graft rejection. PRO
CC	polypeptides can be used to diagnose immune related diseases, to identify
CC	inhibitors, and to stimulate the proliferation of T lymphocytes, Anti-PRO
CC	antibodies can be used to detect PRO and in diagnosis. PRO polypeptides,
CC	antibodies and (ant)agonists can be used in rational drug design
XX	
SQ	Sequence 312 AA;
	Query Match 100.0%; Score 1605; DB 4; Length 312;
	Best Local Similarity 100.0%; Pred. No. 5.2e-123;
	Matches 312; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy	1 MARRSRHRLLLRLYLVALGYHKAYGFSAPKDDQVVTAVEYQEAIALACKTPKKTVSSR 60
Db	1 MARRSRHRLLLRLYLVALGYHKAYGFSAPKDDQVVTAVEYQEAIALACKTPKKTVSSR 60
Qy	61 LEWKLGSRVSFVYQQTLOGDFKNRAEMIDFNIRIKNVTNRSDAGKYRCEVSAPSEQQN 120
Db	61 LEWKLGSRVSFVYQQTLOGDFKNRAEMIDFNIRIKNVTNRSDAGKYRCEVSAPSEQQN 120
Qy	121 LEEDTVTLVLVAPVPSCEVPSSALSGTVVELRCQDKGNPAPEYTFWKDGIRLLENPR 180
Db	121 LEEDTVTLVLVAPVPSCEVPSSALSGTVVELRCQDKGNPAPEYTFWKDGIRLLENPR 180
Qy	181 LGSQSTNSSYTMNTKTGTLOFNTVSKLDTGEYSCEARNVGYRRCQKRMQVDDLINISGI 240
Db	181 LGSQSTNSSYTMNTKTGTLOFNTVSKLDTGEYSCEARNVGYRRCQKRMQVDDLINISGI 240
Qy	241 IAAVVVALVISVGLGVCYAQRKGYSKETSFKSNSSSKATTMSNVQWLTPVIALW 300
Db	241 IAAVVVALVISVGLGVCYAQRKGYSKETSFKSNSSSKATTMSNVQWLTPVIALW 300
Qy	301 KAAAGSGRGOEF 312
Db	301 KAAAGSGRGOEF 312
	RESULT 10
	AAU12339
ID	AAU12339 standard; protein; 312 AA.
XX	
AC	AAU12339;
XX	
DT	24-OCT-2001 (first entry)
XX	
DE	Human PRO245 polypeptide sequence.
XX	
KW	Human secretory and transmembrane; PRO; mammalian; cancer; lung; breast;
KW	prostate; cervical; tumour necrosis factor-alpha; TNF-alpha; cartilage;
KW	ear; proliferation; glucose; free fatty acid; skeletal muscle; adipocyte;
KW	A-peptide; factor VIIA; gene therapy.







29-OCT-1997; 97US-0063704P.  
29-OCT-1997; 97US-0063732P.  
29-OCT-1997; 97US-0063734P.  
29-OCT-1997; 97US-0063735P.  
29-OCT-1997; 97US-0063738P.  
29-OCT-1997; 97US-0064215P.  
31-OCT-1997; 97US-0063870P.  
31-OCT-1997; 97US-0064103P.  
03-NOV-1997; 97US-0064248P.  
07-NOV-1997; 97US-0064809P.  
12-NOV-1997; 97US-0065186P.  
17-NOV-1997; 97US-0065848P.  
18-NOV-1997; 97US-0065693P.  
21-NOV-1997; 97US-0066120P.  
21-NOV-1997; 97US-0066364P.  
24-NOV-1997; 97US-0066453P.  
24-NOV-1997; 97US-0066466P.  
24-NOV-1997; 97US-0066511P.  
24-NOV-1997; 97US-0066770P.  
24-NOV-1997; 97US-0066772P.  
10-SEP-1998; 98WO-US018824.  
14-SEP-1998; 98WO-US019177.  
16-SEP-1998; 98WO-US019330.  
17-SEP-1998; 98WO-US019437.  
01-DEC-1998; 98WO-US025108.  
08-SEP-1999; 99WO-US020594.  
13-SEP-1999; 99WO-US020944.  
15-SEP-1999; 99WO-US021090.  
15-SEP-1999; 99WO-US021547.  
05-OCT-1999; 99WO-US023089.  
29-NOV-1999; 99WO-US028214.  
30-NOV-1999; 99WO-US028313.  
01-DEC-1999; 99WO-US028301.  
02-DEC-1999; 99WO-US028564.  
02-DEC-1999; 99WO-US028565.  
16-DEC-1999; 99WO-US030095.  
20-DEC-1999; 99WO-US030911.  
20-DEC-1999; 99WO-US030999.  
05-JAN-2000; 2000WO-US000219.  
11-FEB-2000; 2000WO-US003565.  
22-FEB-2000; 2000WO-US004414.  
24-FEB-2000; 2000WO-US005004.  
02-MAR-2000; 2000WO-US005841.  
20-MAR-2000; 2000WO-US007377.  
30-MAR-2000; 2000WO-US008439.  
22-MAY-2000; 2000WO-US014042.  
02-JUN-2000; 2000WO-US015264.  
28-JUL-2000; 2000WO-US020710.  
24-AUG-2000; 2000WO-US023328.  
18-SEP-2000; 2000US-00665350.  
(GETH ) GENENTECH INC.  
PA Ashkenazi A, Botstein D, Desnoyers L, Eaton DL, Ferrara N;  
PI Filvaroff E, Fong S, Gerber H, Gerritsen MB, Goddard A;  
PI Godowski J, Grimaldi JC, Gurney AL, Hillan KJ, Kljavin IJ;  
PI Mather JP, Pan J, Paoni NF, Roy MA, Stewart TA, Tumas D;  
PI Williams PM, Wood WT;  
XX WPI; 2003-328338/31.  
DR N-PSDB; ACA58948.  
XX  
PT Isolated nucleic acid useful for e.g., treating pathological disorders  
PT encodes a secreted or transmembrane protein.  
XX  
XX Claim 12; Fig 24; 473pp; English.  
XX  
CC The invention relates to human PRO polypeptides (secreted or  
CC transmembrane polypeptides) and the polynucleotides encoding them. The  
CC PRO polypeptides and polynucleotides can be used in treating pathological  
CC disorders and tumors, in therapeutic treatment of cardiac insufficiency  
CC disorders and in therapeutic treatment of disorders involving protein  
CC secretion by the pancreas, including diabetes. They can also be used in

treating disorders associated with the preservation and maintenance of  
gastrointestinal mucosa and the repair of acute and chronic mucosal  
lesions, and skin diseases associated with abnormal keratinocyte  
differentiation (e.g., psoriasis, epithelial cancers such as lung  
squamous cell carcinoma, epidermoid carcinoma of the vulva and gliomas).  
The sequences can be used as molecular markers for protein  
electrophoresis purposes and can be utilised in protein-protein binding  
assays, biochemical screening assays, immunoassays and cell-based assays.  
This sequence represents a human PRO polypeptide of the invention  
XX  
SQ Sequence 312 AA;  
Query Match 100.0%; Score 1605; DB 6; Length 312;  
Best Local Similarity 100.0%; Pred. No. 5.2e-123;  
Matches 312; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MARRSRHRLLLLLRYLVVALGYHAYGFSAPKDOQVTVAVEYQAILACKTPKKTVSRR 60  
DB 1 MARRSRHRLLLLLRYLVVALGYHAYGFSAPKDOQVTVAVEYQAILACKTPKKTVSRR 60  
QY 61 LEWKKLGRSVSVFYVYQQTLOQDFKNRAEMIDFNIRIKNVTRSDAGKYRCEVSAPSEOGN 120  
DB 61 LEWKKLGRSVSVFYVYQQTLOQDFKNRAEMIDFNIRIKNVTRSDAGKYRCEVSAPSEOGN 120  
QY 121 LEEDTVTLEVLVAPAVPSCVPSSALSCTVVELRCODKEGNPAPETWPKDGIRLLENPR 180  
DB 121 LEEDTVTLEVLVAPAVPSCVPSSALSCTVVELRCODKEGNPAPETWPKDGIRLLENPR 180  
QY 181 LGSQSTNSSTYMTNTKTGTLOFNTVSKLDTGEYSCEARNVSVYRRCPGKRMQVDDLNSGI 240  
DB 181 LGSQSTNSSTYMTNTKTGTLOFNTVSKLDTGEYSCEARNVSVYRRCPGKRMQVDDLNSGI 240  
QY 241 IAAVVVVALVSVGLGVYQAKRGYFSKTSFQKSNSSSKATTMSNVQWLTPTVIPALW 300  
DB 241 IAAVVVVALVSVGLGVYQAKRGYFSKTSFQKSNSSSKATTMSNVQWLTPTVIPALW 300  
QY 301 KAAAGGSRGQEF 312  
DB 301 KAAAGGSRGQEF 312  
RESULT 13  
ABO17783  
ID ABO17783 standard; protein; 312 AA.  
XX ABO17783;  
XX ABO17783;  
DT 26-AUG-2003 (first entry)  
XX  
DE Novel human secreted and transmembrane protein PRO245.  
XX  
KW Human; secreted and transmembrane protein; PRO; antiinflammatory;  
KW antiarteriosclerotic; cardiant; anti-infertility; anti-HIV; cytostatic;  
KW antididiabetic; gene therapy; tumour necrosis factor (TNF)-alpha release;  
KW TNF-alpha release; cell proliferation; cell differentiation;  
KW gene expression modulator; proteoglycan release; cytokine release;  
KW tumor; inflammatory disease; organ failure; atherosclerosis;  
KW cardiac injury; infertility; birth defect; premature aging; AIDS;  
KW acquired immunodeficiency syndrome; cancer; diabetic complication;  
KW chromosome mapping; gene mapping; pharmaceutical; diagnostic; biosensor;  
KW bioreactor; tissue typing.  
XX  
OS Homo sapiens.  
XX  
XX US2003032156-A1.  
XX  
PD 13-FEB-2003.  
XX  
PF 06-MAY-2002; 2002US-00140474.  
XX  
XX 31-MAR-1997; 97WO-US005230.  
PR 12-JUN-1998; 98WO-US012456.  
PR 14-JUL-1998; 98WO-US014552.





CC		by recombinant techniques, and in generating either transgenic animals or	
CC		knock-out animals which, in turn, are useful in the development and	
CC		screening of therapeutically useful reagents. The PRO polypeptides or	
CC		their antibodies are useful in preparing a medicament for treating a	
CC		condition responsive to the polypeptide or antibody, such as cancer,	
CC		Alzheimer's disease or ischaemia, and in various diagnostic assays.	
CC		ABU71445-ABU71505 represent human PRO polypeptides of the invention	
XX			
SQ		Sequence 312 AA;	
		Query Match 100.0%; Score 1605; DB 6; Length 312;	
		Best Local Similarity 100.0%; Pred. No. 5.2e-123;	
		Matches 312; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
Qy	1	MARRSRHLLLLRLYLVALGYHAYGFSAPKQDVVTAVEYQEAIIACKTPKKTVSSR	60
Db			
		1 MARRSRHLLLLRLYLVALGYHAYGFSAPKQDVVTAVEYQEAIIACKTPKKTVSSR	60
Qy	61	LEWKKLGRSVFVYQQTLOGDFKNRAEMIDFNIRIKNVTRSDAGKYRCEVSAPSEQQN	120
Db			
		61 LEWKKLGRSVFVYQQTLOGDFKNRAEMIDFNIRIKNVTRSDAGKYRCEVSAPSEQQN	120
Qy	121	LEEDTVTLEVLVAPVPSCVPSALSCTGVVVELRCQDKEGNPAPETWFKDGIRLLENPR	180
Db			
		121 LEEDTVTLEVLVAPVPSCVPSALSCTGVVVELRCQDKEGNPAPETWFKDGIRLLENPR	180
Qy	181	LGSQSTNSYTMNTKTLQNTVSKLDTGEYSCARNSVGRCPGKRMQVDDLNTSGI	240
Db			
		181 LGSQSTNSYTMNTKTLQNTVSKLDTGEYSCARNSVGRCPGKRMQVDDLNTSGI	240
Qy	241	IAAVVVALVLSVCGLVGYAQRKGYSKTSFQKSNSSSKATTMSNVQMLTPVIPALW	300
Db			
		241 IAAVVVALVLSVCGLVGYAQRKGYSKTSFQKSNSSSKATTMSNVQMLTPVIPALW	300
Qy	301	KAAAGGSRGQEF 312	
Db			
		301 KAAAGGSRGQEF 312	
RESULT 15			
ABU81037		ID ABU81037 standard; protein; 312 AA.	
XX		AC ABU81037;	
XX		DT 23-JUN-2003 (first entry)	
XX		DE Human PRO polypeptide #168.	
XX		KW Human; PRO polypeptide; secreted and transmembrane protein;	
KW		anti-PRO antibody; diagnostic assay; gene expression; diabetes;	
KW		bone disorder; cartilage disorder; rheumatoid arthritis; obesity;	
KW		sports injury; osteoarthritis; hyper-insulinaemia; hypo-insulinaemia;	
KW		hearing loss; coagulation disorder; stroke; heart attack; cardiant;	
KW		antidiabetic; anorectic; vulnary; antiarthritic; osteopathic;	
KW		antirheumatic; auditory; cerebroprotective; angiogenic.	
XX		OS Homo sapiens.	
XX		FN US2003004311-A1.	
XX		PD 02-JAN-2003.	
XX		PF 19-DEC-2001; 2001US-00028072.	
XX		PR 18-JUN-1997; 97US-0049911P.	
XX		PR 26-AUG-1997; 97US-0056974P.	
XX		PR 17-SEP-1997; 97US-0059113P.	
XX		PR 17-SEP-1997; 97US-0059115P.	
XX		PR 17-SEP-1997; 97US-0059117P.	
XX		PR 17-SEP-1997; 97US-0059122P.	
XX		PR 17-SEP-1997; 97US-0059184P.	
XX		PR 18-SEP-1997; 97US-0059263P.	

PR	19-SEP-1997;	97US-0059352P.
PR	19-SEP-1997;	97US-0059588P.
PR	24-SEP-1997;	97US-0059836P.
PR	17-OCT-1997;	97US-0062250P.
PR	17-OCT-1997;	97US-0062285P.
PR	17-OCT-1997;	97US-0062287P.
PR	17-OCT-1997;	97US-0063755P.
PR	24-OCT-1997;	97US-0062814P.
PR	24-OCT-1997;	97US-0062816P.
PR	24-OCT-1997;	97US-0063045P.
PR	24-OCT-1997;	97US-0063082P.
PR	24-OCT-1997;	97US-0063127P.
PR	27-OCT-1997;	97US-0063327P.
PR	27-OCT-1997;	97US-0063329P.
PR	28-OCT-1997;	97US-0063550P.
PR	28-OCT-1997;	97US-0063561P.
PR	29-OCT-1997;	97US-0063704P.
PR	29-OCT-1997;	97US-0063733P.
PR	29-OCT-1997;	97US-0063735P.
PR	29-OCT-1997;	97US-0063738P.
PR	03-NOV-1997;	97US-0064248P.
PR	07-NOV-1997;	97US-0064809P.
PR	12-NOV-1997;	97US-0065186P.
PR	17-NOV-1997;	97US-0065846P.
PR	21-NOV-1997;	97US-0066364P.
PR	24-NOV-1997;	97US-0066453P.
PR	24-NOV-1997;	97US-0066511P.
PR	24-NOV-1997;	97US-0066770P.
PR	11-DEC-1997;	97US-0069212P.
PR	11-DEC-1997;	97US-0069278P.
PR	11-DEC-1997;	97US-0069334P.
PR	16-DEC-1997;	97US-0069694P.
PR	23-JAN-1998;	98US-0072320P.
PR	04-FEB-1998;	98US-0073612P.
PR	09-FEB-1998;	98US-0074086P.
PR	09-FEB-1998;	98US-0074092P.
PR	12-MAR-1998;	98US-0077791P.
PR	20-MAR-1998;	98US-0078910P.
PR	25-MAR-1998;	98US-0079294P.
PR	27-MAR-1998;	98US-0079663P.
PR	31-MAR-1998;	98US-0079728P.
PR	12-JUN-1998;	98WO-US012456
PR	14-JUL-1998;	98WO-US014552
PR	28-AUG-1998;	98WO-US017888
PR	10-SEP-1998;	98WO-US018824
PR	14-SEP-1998;	98WO-US019093
PR	14-SEP-1998;	98WO-US019094
PR	14-SEP-1998;	98WO-US019177
PR	16-SEP-1998;	98WO-US019330
PR	17-SEP-1998;	98WO-US019437
PR	07-OCT-1998;	98WO-US021141
PR	29-OCT-1998;	98WO-US022991
PR	29-OCT-1998;	98WO-US022992
PR	20-NOV-1998;	98WO-US024855
PR	01-DEC-1998;	98WO-US025108
PR	05-JAN-1999;	99WO-US000106
PR	08-MAR-1999;	99WO-US0005028
PR	10-MAR-1999;	99WO-US005190
PR	20-APR-1999;	99WO-US008615
PR	14-MAY-1999;	99WO-US010733
PR	02-JUN-1999;	99WO-US012252
PR	01-SEP-1999;	99WO-US020111
PR	08-SEP-1999;	99WO-US020594
PR	13-SEP-1999;	99WO-US020944
PR	15-SEP-1999;	99WO-US021090
PR	15-SEP-1999;	99WO-US021547
PR	05-OCT-1999;	99WO-US023089
PR	29-NOV-1999;	99WO-US028214
PR	30-NOV-1999;	99WO-US028313
PR	30-NOV-1999;	99WO-US028409
PR	01-DEC-1999;	99WO-US028301
PR	01-DEC-1999;	99WO-US028634

```
PR 02-DEC-1999; 99WO-US028551.
PR 02-DEC-1999; 99WO-US028564.
PR 02-DEC-1999; 99WO-US028565.
PR 16-DEC-1999; 99WO-US030095.
PR 20-DEC-1999; 99WO-US030911.
PR 20-DEC-1999; 99WO-US030999.
PR 30-DEC-1999; 99WO-US031243.
PR 30-DEC-1999; 99WO-US031274.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000277.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004341.
PR 18-FEB-2000; 2000WO-US004342.
PR 22-FEB-2000; 2000WO-US004414.
PR 24-FEB-2000; 2000WO-US004914.
PR 24-FEB-2000; 2000WO-US005004.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005746.
XX
PA (GETH ) GENENTECH INC.
XX
PI Baker KP, Beresini M, DeForge L, Desnoyers L, Pilvaroff E, Gao W;
PI Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;
XX
DR WPI; 2003-352836/33.
XX N-PSDB; ACA67161.
XX
PT New isolated PRO polypeptide useful for treating diabetes, rheumatoid
PT arthritis, sports injuries, obesity, hearing loss in mammals, stroke, or
PT heart attack.
XX
PS Claim 12; Fig 336; 643pp; English.
XX
CC The present invention relates to the isolation of novel human PRO
CC polypeptides, and the polynucleotide sequences encoding them. The PRO
CC polypeptides are secreted and transmembrane proteins. The PRO
CC polypeptides and polynucleotides are useful for preparing a medicament
CC useful in the treatment of diabetes, bone and/or cartilage disorders
CC (e.g. rheumatoid arthritis, sports injuries, osteoarthritis), obesity,
CC hyper- or hypo-insulinaemia, hearing loss, and coagulation disorders
CC (e.g. stroke, heart attack). Anti-PRO antibodies are useful in diagnostic
CC assays for PRO, by detecting its expression in specific cells, tissues or
CC serum, and for affinity purification of PRO from recombinant cell culture
CC or natural sources. ABU80870-ABU81144 represent the human PRO
CC polypeptides of the invention. Note: The sequence data for this patent
CC was obtained in electronic format directly from the USPTO web site at
CC seqdata.uspto.gov/psipdbEntry.html
XX
SQ Sequence 312 AA;
Query Match 100.0%; Score 1605; DB 6; Length 312;
Best Local Similarity 100.0%; Pred. No. 5.2e-123; Mismatches 0; Indels 0; Gaps 0;
Matches 312; Conservative 0;
QY 1 MARRSRHLLLLRLVVALGYKAYGFSAPKQQVTVAVEYQEAAILACKTPKKTSSR 60
Db 1 MARRSRHLLLLRLVVALGYKAYGFSAPKQQVTVAVEYQEAAILACKTPKKTSSR 60
QY 61 LEWKKLGRSVFVYQQTLQDGFKNRAEMIDFNIRIKNTRSDACKYRCEVSAPSEQQN 120
Db 61 LEWKKLGRSVFVYQQTLQDGFKNRAEMIDFNIRIKNTRSDACKYRCEVSAPSEQQN 120
QY 121 LEEDVTTLVLVAPVPSCEVPSSALSGTVVELRCQDEKGNPAPEYTWFKDGIRLLENPR 180
Db 121 LEEDVTTLVLVAPVPSCEVPSSALSGTVVELRCQDEKGNPAPEYTWFKDGIRLLENPR 180
QY 181 LGSQSTNSSYTNTKGTQLQNTVSKLDTGEYSCEARNSVGYRRCPCGKRMQVDDNLNIGI 240
Db 181 LGSQSTNSSYTNTKGTQLQNTVSKLDTGEYSCEARNSVGYRRCPCGKRMQVDDNLNIGI 240
QY 241 IAAVVVVALVISVCGLVGYAQRKGYSFKSSTSSKATTMTSENQWMLTPVIPALW 300
```

```
Db 241 IAAVVVVALVISVCGLVGYAQRKGYSFKSSTSSKATTMTSENQWMLTPVIPALW 300
QY 301 KAAAGGSRGQEF 312
Db 301 KAAAGGSRGQEF 312

Search completed: December 6, 2005, 13:27:24
Job time : 192 secs
```

This Page Blank (uspio)



GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: December 6, 2005, 13:21:07 ; Search time 39 Seconds  
(without alignments)  
769.734 Million cell updates/sec

Title: US-10-785-607B-9  
Perfect score: 1605  
Sequence: 1 MARRSRHRLLLLRLLVLA.....TPVIPALWKAAGSGRQGEF 312

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues  
Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000  
Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : PIR\_80:.\*  
1: pir1.\*  
2: pir2.\*  
3: pir3.\*  
4: pir4.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	404	25.2	299	2 S56749	junctional adhesio
2	206.5	12.9	365	2 JC7780	coxackie- and ade
3	184	11.5	811	2 A41054	fasciclin II, tran
4	184	11.5	873	2 B41054	fasciclin II PI-li
5	177	11.0	6642	2 T29757	protein UNC-89 - C
6	169.5	10.6	7962	2 I38346	elastic titin - hu
7	162	10.1	725	2 JB0100	neural cell adhesi
8	162	10.1	1367	2 A41228	protein-tyrosine k
9	161	10.0	344	2 A27681	nonspecific cross-
10	158	9.8	1092	1 JN0635	neural cell adhesi
11	157	9.8	860	2 JC5702	ErB kinase activa
12	157	9.8	868	2 JC5701	ErB kinase activa
13	156	9.7	1897	1 T0HULK	leukocyte antigen-
14	155.5	9.7	1328	2 T32007	hypothetical prote
15	155.5	9.7	2783	2 T34416	biliary glycoprote
16	155	9.7	521	2 JC1508	neural cell adhesi
17	155	9.7	725	2 JB0099	neural cell adhesi
18	155	9.7	850	2 JC5700	neural cell adhesi
19	155	9.7	1088	1 IXLNL	connectin 3B - chi
20	154.5	9.6	1323	2 PNO568	perlecan precursor
21	154.5	9.6	4391	2 A38096	connectin/titin -
22	153	9.5	4162	2 T42633	neural cell adhesi
23	152.5	9.5	1091	1 IJCHNL	cell adhesion prot
24	152	9.5	1033	2 S19247	neuroglian - fruit
25	152	9.5	1239	1 A32579	hypothetical prote
26	152	9.5	5175	2 T20992	hemectatin precurs
27	152	9.5	5198	2 T43290	hypothetical prote
28	151.5	9.4	352	2 T33433	biliary glycoprote
29	151.5	9.4	521	2 S34338	

ALIGNMENTS

RESULT 1

S56749

Junctional adhesion molecule precursor - human

N:Alternate names: F11 platelet antigen; platelet adhesion molecule PAM-1; platelet F11

C:Species: Homo sapiens (man)

C:Date: 27-Oct-1995 #sequence\_revision 01-Feb-2002 #text\_change 09-Jul-2004

C:Accession: A59406; S56749

R:Ozaki, H.; Ishii, K.; Horiuchi, H.; Arai, H.; Kawamoto, T.; Okawa, K.; Iwamatsu, A.; K

J. Immunol. 163, 553-557, 1999

A:Title: Cutting edge: combined treatment of TNF-alpha and IFN-gamma causes redistributi

A:Reference number: A59406; MUID:99323940; PMID:10395639

A:Accession: A59406

A:Status: preliminary

A:Molecule type: DNA

A:Residues: 1-299 <OZA>

A:Cross-references: UNIPROT:Q9Y624; UNIPARC:UPI00000000DC1; GB:AAD42050; NID:G5326797; PI

R:Naik, U.P.; Ehrlich, Y.H.; Kornecki, E.

Biochem. J. 310, 155-162, 1995

A:Title: Mechanisms of platelet activation by a stimulatory antibody: cross-linking of a

A:Reference number: S56749; MUID:95374438; PMID:7646439

A:Accession: S56749

A:Molecule type: Protein

A:Residues: 28-49 'X', 51-53-62-73 'E', 75-103,123, 'P', 125-130, 'FDKDXITLYLNXY', 'LT', 206, 'X'

A:Cross-references: UNIPARC:UPI00001468C7; UNIPARC:UPI00001468CD; UNIPARC:UPI00001468D1;

A:Note: the order of the peptides other than the amino terminus was not determined

C:Genetics: JAM

C:Keywords: glycoprotein; phosphoprotein; platelet aggregation; platelet membrane

F:1-25/Domain: signal sequence #status predicted <SIG>

F:26-299/Product: junctional adhesion molecule #status predicted <MAT>

Query Match 25.2%; Score 404; DB 2; Length 299;

Best Local Similarity 35.2%; Pred. No. 1.9e-24;

Matches 102; Conservative 46; Mismatches 126; Indels 16; Gaps 7;

Qy 2 ARSRHRLLLLRLLV--VALGYHKAYGFSAPKDDQVTVAVEYQEAILACKTPKKTVSS 59

Db 5 AQVERKLLCLFILAIIICSLALG-----SVTVHSSEPEVRIPENNPVKLSGSGFS-SP 58

Qy 60 RLEWK-KLGRSVSFVYQQTLQGDPKNAEMIDFNIRIKNVTSDAGKYRCVGSAPSQ 118

Db 59 RVEWKFQDTRLVYCYNKITSYEDRVTFPLGTGTFKSVTRDGTGTYTCMVS--BEGG 116

Qy 119 QNLEEDTTLVLVAVPVSCEVPSSALSGTVELRCODEKGNPAPEYTFKDGIRLLEN 178

Db 117 NSYGEVKVLIVLPPSKPTWIPSSATIGNRAVLTCSEODGSPSPSYTFKDGIVMPTN 176

Qy 179 PRLGQSTNSYTNVTKTGLQFNTVSKLDTGEGSCARNVGVYRRCPEGK-RMQVDDLNI 237

Db 177 PKSTRFNSNSVLYNPTTGLVFDPLSADTGEYSCEARNGYGTPTMTSNAYRMEAVERNV 236

Qy 238 SGIIAAVVVALVISVGLGVCAQRKGYFSKETSFKSSSSSKATTMSE 287

Db 237 GVIVAALVTLILGILVFGWFAYSRGHFDK----TKKGTSSKKVIYSQ 282

RESULT 2

JC7780

coxackie- and adenovirus receptor - bovine

C/Species: Bos primigenius taurus (cattle)

C/Date: 02-Apr-2002 #sequence\_revision 02-Apr-2002 #text\_change 09-Jul-2004

C/Accession: JC7780

R;Thoele, I.; Keyaerts, E.; Lindberg, M.; Van Ranst, M.

Biochem. Biophys. Res. Commun. 288, 805-808, 2001

A/Title: Characterization of a cDNA encoding the bovine coxsackie and adenovirus receptor

A/Reference number: JC7780

A/Contents: Liver

A/Accession: JC7780

A/Molecule type: mRNA

A/Residues: 1-365 <THO>

A/Cross-references: UNIPROT:Q8MMV3; UNIPARC:UPI0000089CD; GB:AY033651

C/Comment: This protein serves as the primary adenoviral attachment site on bovine cells

Query Match 12.9%; Score 206.5; DB 2; Length 365;

Best Local Similarity 24.3%; Pred. No. 9.3e-09;

Matches 80; Conservative 49; Mismatches 135; Indels 65; Gaps 11;

Qy 12 LLLRYLVVALGYHKAYGFSAPKQOVVTAVEYQEAAILACK---TPKKTSSRLSW----- 63

Db 3 LLLRFLLCGVADPTRGLSITTPPMIEKAGETAYLPCKFTLGPEDQGLDIEWLLSPA 62

Qy 64 --KKL-----GRSVSFVYQQTLOGDFKNRAEMI-----DLKGRVHFTSNDLKSGDASINVTNLQSLDIGT 106

Db 63 DNQKVDQVILYSGDKIYDYYQ-----DLKGRVHFTSNDLKSGDASINVTNLQSLDIGT 117

Qy 107 YRCBV-SAPSEQGNLEEDTTLVLVAVAPVPSCEVPSSALSGTIVVELRCODKEGNPAPE 165

Db 118 YQCKVKAPGVGNKKIQ-----LTVLKPISGIRCYVDGSEIGNDFKLKCEPKESLPLR 172

Qy 166 YTWFKDGIRLLENPLRGSQSTNSSYTMTKGTILQFNVTSLDKTGEYSCEARNVGYRR 225

Db 173 YEWQK-----LSQSQKLPWLBEMTSFVSVKNASAEYSGTYCTVVRNRVGSQDC 223

Qy 226 -----PGKRMQVDLNLISGIIAAVVVVVALVISVCGLGVCYAKRGYFSKETSFO--- 274

Db 224 LLRLDVVPPSNRAGTIAGAVIGTLALVLIALIVFCCH-----KKREKYEKEVHHIRE 279

Qy 275 -----KNSSSKATMTSENVOQLTPVIPA 298

Db 280 DVPPPKSRTSTARSYIGSNHSSLSGMSPS 308

RESULT 3

A41054

fasciclin II, transmembrane splice form precursor - fruit fly (Drosophila melanogaster)

C/Species: Drosophila melanogaster

C/Date: 21-Apr-1992 #sequence\_revision 21-Apr-1992 #text\_change 09-Jul-2004

C/Accession: A41054

R;Grenningloh, G.; Rehm, E.J.; Goodman, C.S.

Cell 67, 45-57, 1991

A/Title: Genetic analysis of growth cone guidance in Drosophila: fasciclin II functions

A/Reference number: A41054; MUID:92005695; PMID:1913818

A/Accession: A41054

A/Molecule type: mRNA

A/Residues: 1-811 <GRE>

A/Cross-references: UNIPROT:P34082; UNIPARC:UPI000002A963; GB:M77165; NID:g157402; PID:g

C/Genetics:

A/Gene: FlyBase:Fas2

A/Cross-references: FlyBase:F8gn0000635

A/Superfamily: neural cell adhesion molecule; fibronectin type III repeat homology; immu

C/Keywords: membrane protein

Query Match 11.5%; Score 184; DB 2; Length 811;

Best Local Similarity 27.2%; Pred. No. 1.5e-06;

Matches 53; Conservative 37; Mismatches 75; Indels 30; Gaps 8;

Qy 30 SAPKQOVVTAVEYQEAAILACKTPKKTSSRLSWKKLG---RSVSFVYQQTLOGDFKNR 86

Db 142 NAPENQYPTLGQDY---VVMCEV-KADPNPTIDMLRNGDPFIRTNKDYVYQT----- 189

Qy 87 AEMIDFNIRIKNVTNRSDAGKYRCEVSAPSGQGNLEEDTTLVLVAVAPVPSCEVPSSAL 146

Db 190 -----NGLLRNVQESDEGIYTCR-AVIETGELLER-TIRVEVFIQPEIISLPTNLEAV 242

Qy 147 SGTIVVELRCODKEGNPAPEYTWFKDGIRLLENPLRGSQSTNSSYTMTKGTILQFNVTSK 206

Db 243 EGKPFPAANCTAR-GKVPPEISWIRDATQL-----NVATADRFOVNPQTGLVTISSVSQ 294

Qy 207 LDTGEYSCEARNVSG 221

Db 295 DDYGTVTCLAKNRAG 309

RESULT 5

T29757

protein UNC-89 - Caenorhabditis elegans

C/Species: Caenorhabditis elegans

C/Date: 15-Oct-1999 #sequence\_revision 15-Oct-1999 #text\_change 03-Dec-1999

C/Accession: T29757

R;Du, Z.; Le, T.T.; Wilson, R.

submitted to the EMBL Data Library, May 1997

A/Description: The sequence of C. elegans cosmid C09D1.

A/Reference number: T29757

A/Accession: T29757

A/Status: preliminary; translated from GB/EMBL/DBJ

Matches 53; Conservative 37; Mismatches 75; Indels 30; Gaps 8;

Qy 30 SAPKQOVVTAVEYQEAAILACKTPKKTSSRLSWKKLG---RSVSFVYQQTLOGDFKNR 86

Db 142 NAPENQYPTLGQDY---VVMCEV-KADPNPTIDMLRNGDPFIRTNKDYVYQT----- 189

Qy 87 AEMIDFNIRIKNVTNRSDAGKYRCEVSAPSGQGNLEEDTTLVLVAVAPVPSCEVPSSAL 146

Db 190 -----NGLLRNVQESDEGIYTCR-AVIETGELLER-TIRVEVFIQPEIISLPTNLEAV 242

Qy 147 SGTIVVELRCODKEGNPAPEYTWFKDGIRLLENPLRGSQSTNSSYTMTKGTILQFNVTSK 206

Db 243 EGKPFPAANCTAR-GKVPPEISWIRDATQL-----NVATADRFOVNPQTGLVTISSVSQ 294

Qy 207 LDTGEYSCEARNVSG 221

Db 295 DDYGTVTCLAKNRAG 309

RESULT 4

B41054

fasciclin II PI-linked splice form precursor - fruit fly (Drosophila melanogaster)

C/Species: Drosophila melanogaster

C/Date: 21-Apr-1992 #sequence\_revision 21-Apr-1992 #text\_change 17-Mar-2000

C/Accession: B41054

R;Grenningloh, G.; Rehm, E.J.; Goodman, C.S.

Cell 67, 45-57, 1991

A/Title: Genetic analysis of growth cone guidance in Drosophila: fasciclin II functions

A/Reference number: A41054; MUID:92005695; PMID:1913818

A/Accession: B41054

A/Status: preliminary

A/Molecule type: mRNA

A/Residues: 1-873 <GRE>

A/Cross-references: UNIPARC:UPI0000177B17; GB:M77166

C/Genetics:

A/Gene: FlyBase:Fas2

A/Cross-references: FlyBase:F8gn0000635

A/Superfamily: neural cell adhesion molecule; fibronectin type III repeat homology; immu

C/Keywords: transmembrane protein

Query Match 11.5%; Score 184; DB 2; Length 873;

Best Local Similarity 27.2%; Pred. No. 1.6e-06;

Matches 53; Conservative 37; Mismatches 75; Indels 30; Gaps 8;

Qy 30 SAPKQOVVTAVEYQEAAILACKTPKKTSSRLSWKKLG---RSVSFVYQQTLOGDFKNR 86

Db 142 NAPENQYPTLGQDY---VVMCEV-KADPNPTIDMLRNGDPFIRTNKDYVYQT----- 189

Qy 87 AEMIDFNIRIKNVTNRSDAGKYRCEVSAPSGQGNLEEDTTLVLVAVAPVPSCEVPSSAL 146

Db 190 -----NGLLRNVQESDEGIYTCR-AVIETGELLER-TIRVEVFIQPEIISLPTNLEAV 242

Qy 147 SGTIVVELRCODKEGNPAPEYTWFKDGIRLLENPLRGSQSTNSSYTMTKGTILQFNVTSK 206

Db 243 EGKPFPAANCTAR-GKVPPEISWIRDATQL-----NVATADRFOVNPQTGLVTISSVSQ 294

Qy 207 LDTGEYSCEARNVSG 221

Db 295 DDYGTVTCLAKNRAG 309

RESULT 5

T29757

protein UNC-89 - Caenorhabditis elegans

C/Species: Caenorhabditis elegans

C/Date: 15-Oct-1999 #sequence\_revision 15-Oct-1999 #text\_change 03-Dec-1999

C/Accession: T29757

R;Du, Z.; Le, T.T.; Wilson, R.

submitted to the EMBL Data Library, May 1997

A/Description: The sequence of C. elegans cosmid C09D1.

A/Reference number: T29757

A/Accession: T29757

A/Status: preliminary; translated from GB/EMBL/DBJ

J01000  
 neural cell adhesion molecule 2 - African clawed frog  
 N;Alternate names: N-CAM 2  
 C;Species: Xenopus laevis (African clawed frog)  
 C;Date: 19-May-1998 #sequence\_revision 29-May-1998 #text\_change 09-Jul-2004  
 C;Accession: J01000  
 R;Kudo, M.; Takayama, E.; Tadakuma, T.; Shiokawa, K.  
 Biochem. Biophys. Res. Commun. 245, 127-132, 1998  
 A;Title: Molecular cloning of esd-form neural cell adhesion molecules (N-CAMs) as the ma  
 A;Reference number: J00099; MUID:98204770; PMID:9535795  
 A;Accession: J01000  
 A;Molecule type: mRNA  
 A;Residues: 1-725 <KUD>  
 A;Cross-references: UNIPROT:O73634; UNIPARC:UPI00000FD757; DDBJ:AB008163; NID:g3116228;  
 A;Experimental source: heart  
 C;Comment: This protein mediates and regulates various cell-cell interactions through bo  
 C;Superfamily: neural cell adhesion molecule; fibronectin type III repeat homology; immu  
 P;413-475/Domain: immunoglobulin homology <IMM>  
 F;512-589/Domain: fibronectin type III repeat homology <3PR>  
 Query Match 10.1%; Score 162; DB 2; Length 725;  
 Best Local Similarity 27.1%; Pred. No. 7e-05;  
 Matches 56; Conservative 37; Mismatches 98; Indels 16; Gaps 8;  
 QY 29 FSAPKDDQVY--VTAVEYDEAILACKTPKTKVSRLEWKGLGRSVFVYVQOOLQDFKNR 86  
 DB 300 YAKPKITYVENKTADELDDITUCASGDPIPS-ITWRTAHRNIS--SEKTLDDGHIVVK 356  
 QY 87 AEMIDFNIRKNVTRSDAGKYRCEVASPSEQONLEEDTVTLEVLVAPAVPSCEVPSSAL 146  
 DB 357 DHIRMSALTKDIQYTDAGEYFCVASNPV---GVDMQAWYFEVQYAPKIRG-PVVVYTW 411  
 QY 147 SGTVVELRCQDKGNPAPEYTWFKDGIRLLENPRIGSQSTNSYTWNTKTGTLQFNVTISK 206  
 DB 412 EGNPNVNIIC-DYLAHPSAAVSWFRDQ-QLLPS-----SNFSNIKIYNGPTFSSLEVNPDSE 465  
 QY 207 LDTGEYSCEARNSVGVRCPGKRMQVD 233  
 DB 466 NDFGNYNCASVNSIGHSESEFILVQAD 492  
 RESULT 8  
 A41228  
 protein-tyrosine kinase (SC 2.7.1.112) Flk-1 precursor, endothelial cell-specific recept  
 C;Species: Mus musculus (house mouse)  
 C;Date: 19-Jun-1992 #sequence\_revision 19-Jun-1992 #text\_change 31-Dec-2004  
 C;Accession: A41228; A46065; I58365; S18832; S29991  
 R;Matthews, W.; Jordan, C.T.; Gavin, M.; Jenkins, N.A.; Copeland, N.G.; Lemischka, I.R.  
 Proc. Natl. Acad. Sci. U.S.A. 88, 9026-9030, 1991  
 A;Title: A receptor tyrosine kinase cDNA isolated from a population of enriched primitiv

A:Reference number: A41228; MUID:92020984; PMID:1717995  
A:Accession: A41228  
A:Status: preliminary  
A:Molecule type: mRNA  
A:Residues: 1-1367 <MAT>  
A:Cross-references: UNIPROT:P35918; UNIPARC:UPI0000028D93; GB:X59397; NID:G50976; PIDN:C  
R:Willauer, B.; Wisigmann-Voos, S.; Schurch, H.; Martinez, R.; Moller, N.P.; Rissau, W.;  
Cell 72, 835-846, 1993  
A:Title: High affinity VEGF binding and developmental expression suggest Flk-1 as a major  
A:Reference number: A46065; MUID:93208890; PMID:7681362  
A:Accession: A46065  
A:Status: preliminary; not compared with conceptual translation  
A:Molecule type: mRNA  
A:Residues: 1-24, 'T', 26-782, 'VL', 785-916, 'C', 918-1367 <ML>  
A:Cross-references: UNIPARC:UPI000003CA97; GB:X70844; NID:G57923; PIDN:CAAS0192.1; PID:G  
A:Note: submitted to the EMBL Data Library, January 1993  
A:Title: sequence extracted from NCBI backbone (NCBIP:128064)  
R:Oelrichs, R.B.; Reid, H.H.; Bernard, O.; Ziemiecki, A.; Wilks, A.F.  
Oncogene 8, 11-18, 1993  
A:Title: NYK/Flk-1: a putative receptor protein tyrosine kinase isolated from E10 embryo

A;Accession: I58365  
A;Status: preliminary; translated from GB/EMBL/DDBJ







A:Reference number: Z21521  
A:Accession: T34416  
A:Status: preliminary; translated from GB/EMBL/DBJ  
A:Molecule type: DNA  
A:Residues: 1-2783 <FUL>  
A:Cross-References: UNIPARC:UPI000017B8E5; EMBL:U80022; PIDN:AAC25886.1; GSPDB:GN000023;  
A:Experimental source: strain Bristol N2; clone F12F3  
C:Genetics:  
A:Gene: CESP:F12F3.2  
A:Map position: 5  
A:Introns: 45/3; 90/3; 451/3; 509/1; 2313/3; 2341/3; 2378/3; 2414/2; 2453/3; 2474/2; 252

Query Match 9.7%; Score 155.5; DB 2; Length 2783;  
Best Local Similarity 30.4%; Pred. No. 0.0012;  
Matches 58; Conservative 15; Mismatches 77; Indels 41; Gaps 6;  
QY 86 RAEMIDENIRIKNVTNRDAGKYRCEVSAPSEQGNLEEDVTLEVLVAPVNP----- 137  
Db 2606 RNEGDKFILRIANVTADAGKYELTAIINPSGQNAELELVVQSTKTGAKPKFNESPI 2665  
QY 138 --SCEVPSSALSGTVVELRCQDKGNPAPEYTWFKDGI RL---LENPRLGQSQTNSSYTM 192  
Db 2666 VQTCEKNRAELRASF-----SGTPACRWFYNGNELIDGLDGYTITSDDTNS-- 2714  
QY 193 NTKTGTLOFNTVSKLDTGEYSCEARNVGYR-----RCPGKRMQVDDLNISGIIA 242  
Db 2715 -----LLINSYDKKHFGYELCTIRNQGEELANAMILSEGC-RKHPRIDIVFVCNSFI 2767  
QY 243 AVVVVALVTSV 253  
Db 2768 FSVVHVLISI 2778

Search completed: December 6, 2005, 13:32:04  
Job time : 41 secs

**this Page Blank (uspto)**



GenCore version 5.1.6  
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model

Run on: December 6, 2005, 13:20:52 ; Search time 230 Seconds  
(without alignments)  
957.064 Million cell updates/sec

Title: US-10-785-607B-9  
Perfect score: 1605  
Sequence: 1 MARRSRHRLLLLLRLVLA.....TPVIPALWKAAGSGRQGF 312

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2166443 seqs, 705528306 residues

Total number of hits satisfying chosen parameters: 2166443

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : UniProt\_05.80.\*

1: uniprot\_sprot.\*

2: uniprot\_trenbl.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1475	91.9	298	1 JAM2 HUMAN	P57087 homo sapien
2	1172	73.0	298	1 JAM2 MOUSE	Q91i59 mus musculus
3	598.5	37.3	243	2 Q5ZJDI CHICK	Q5ZJDI gallus gall
4	517.5	32.2	181	2 Q9CWD9 MOUSE	Q9CWD9 m mus muscu
5	479	29.8	310	1 JAM3 MOUSE	Q948b7 mus musculus
6	477	29.7	310	1 JAM3 RAT	Q68fq2 rattus norv
7	461.5	28.8	310	1 JAM3 HUMAN	Q9bx67 homo sapien
8	445	27.7	291	2 Q66J15 XENTR	Q66J15 xenopus tro
9	439.5	27.4	296	2 Q640C0 XENLA	Q640C0 xenopus lae
10	439.5	27.4	300	2 Q7SYQ7 XENLA	Q7SYQ7 xenopus lae
11	419.5	26.1	289	2 Q7ZWT0 XENLA	Q7ZWT0 xenopus lae
12	414	25.8	257	2 Q4S0M3 TETNG	Q4S0M3 tetraodon n
13	404	25.2	299	1 JAM1 HUMAN	Q9y624 homo sapien
14	404	25.2	299	2 Q6F1B4 HUMAN	Q6f1b4 homo sapien
15	402.5	25.1	298	1 JAM1 BOVIN	Q9xt56 bos taurus
16	402.5	25.1	298	2 Q5E9V8 BOVIN	Q5E9V8 bos taurus
17	401.5	25.0	292	2 Q66172 BRARE	Q66172 brachydanio
18	396.5	24.7	260	2 Q4S828 TETNG	Q4S828 tetraodon n
19	394	24.5	300	1 JAM1 MOUSE	Q88792 mus musculus
20	394	24.5	300	2 Q8VC39 MOUSE	Q8VC39 mus musculus
21	382	23.8	300	1 JAM1 RAT	Q9jhy1 rattus norv
22	379.5	23.6	273	2 QARRS6 TETNG	Q4rs6 tetraodon n
23	366.5	22.8	259	2 Q9Y5B2 HUMAN	Q9Y5B2 homo sapien
24	364.5	17.7	173	2 Q5UKD5 RAT	Q9jkd5 rattus norv
25	238	14.8	319	1 GPA33 HUMAN	Q99795 homo sapien
26	238	14.8	319	2 Q5VZP6 HUMAN	Q5vzp6 homo sapien
27	229	14.3	335	2 Q9PWR4 CHICK	Q9PWR4 gallus gall
28	228	14.2	318	2 Q91664 XENLA	Q91664 xenopus lae
29	228	14.2	335	2 Q9IGH1 CHICK	Q9ygh1 gallus gall
30	226	14.1	319	1 GPA33 MOUSE	Q9jka5 mus musculus
31	225.5	14.0	347	2 Q5XGG4 XENTR	Q5xgg4 xenopus tro

RESULT 1

JAM2\_HUMAN

ID JAM2\_HUMAN STANDARD; PRT; 298 AA.

AC P57087; Q5UXG6; Q6YNC1;

DT 16-OCT-2001 (Rel. 40, Last sequence update)

DT 13-SEP-2005 (Rel. 48, Last annotation update)

DE Junctional adhesion molecule B precursor (JAMA-A) (Junctional adhesion

DE molecule 2) (Vascular endothelial junction-associated molecule) (VE-

DE JAM).

GN Name=JAM2; Synonyms=C21orf43, VEJAM; ORFNames=UNQ219/PRO245;

OS Homo sapiens (Human)

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Hominidae;

OC Homo

OX NCBI\_TaxID=9606;

RP [1]

RP NUCLEOTIDE SEQUENCE, PROTEIN SEQUENCE OF 29-33, AND TISSUE

RP SPECIFICITY.

RC TISSUE=Vascular endothelial cells;

RA MEDLINE=20317114; PubMed=10779521; DOI=10.1074/jbc.M003189200;

RT Palmeri D., van Zante A., Arrate M.P., Rodriguez J.M., Bjercke R.J.,

RT "Vascular endothelial junction-associated molecule, a novel member of

RT the immunoglobulin superfamily, is localized to intercellular

RT boundaries of endothelial cells.";

RL J. Biol. Chem. 275:19139-19145(2000).

RP [2]

RP NUCLEOTIDE SEQUENCE.

RC TISSUE=Placenta;

RA MEDLINE=20507930; PubMed=10945976; DOI=10.1074/jbc.M002718200;

RT Cunningham S.A., Arrate M.P., Brock T.A.,

RT Vanderall P., Morris A.P., Broek T.A.,

RT "A novel protein with homology to the junctional adhesion molecule;

RT Characterization of leukocyte interactions.";

RL J. Biol. Chem. 275:34750-34756(2000).

RP [3]

RP NUCLEOTIDE SEQUENCE.

RA MEDLINE=22032985; PubMed=12036298; DOI=10.1006/geno.2002.6782;

RT Gardiner K., Slavov D., Bechtel L., Davissom M.;

RT "Annotation of human chromosome 21 for relevance to Down syndrome:

RT gene structure and expression analysis.";

RL Genomics 79:833-843(2002).

RP [4]

RP NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA].

RA MEDLINE=22887296; PubMed=12975309; DOI=10.1101/gr.1293003;

RT Clark H.F., Gurney A.L., Abaya E., Baker K., Baldwin D.T., Brush J.,

RT Chen J., Chow B., Chui C., Crowley C., Currell B., Deuel B., Dowd P.,

RT Eaton D., Foster J.S., Grimaldi C., Gu Q., Haas P.E., Haldens S.,

RT Huang A., Kim H.S., Klimowski L., Jin Y., Johnson S., Lee J.,

RT Lewis L., Liao D., Mark M.R., Robbie E., Sanchez C., Schoenfeld J.,

RT Seshagiri S., Simmons L., Singh J., Smith V., Stinson J., Vagts A.,

RT Vandlen R.L., Watanabe C., Wleand D., Woods K., Xie M.-H.,

RA Yansura D.G., Yi S., Yu G., Yuan J., Zhang M., Zhang Z., Goddard A.D.,

RA Wood W.I., Godowski P.J., Gray A.M.;

Q6ayd4 rattus norv  
Q91665 xenopus lae  
Q9YGV5 gallus gall  
Q86XK7 homo sapien  
Q6nz84 homo sapien  
Q96ap7 homo sapien  
Q9u2p2 rattus norv  
Q9tu80 canis fam1  
Q925f2 mus musculus  
Q6nw88 brachydanio  
Q8mwv3 bos taurus  
Q588f7 brachydanio  
Q6P359 xenopus tro  
P78310 homo sapien

"The secreted protein discovery initiative (SPDI), a large-scale effort to identify novel human secreted and transmembrane proteins: a bioinformatics assessment.";  
Genome Res. 13:2265-2270(2003).  
[5]

NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA].

TISSUE=Lung;  
MEDLINE=22389257; PubMed=12477932; DOI=10.1073/pnas.2426038999;  
Strauberg R.L., Peingold E.A., Grouse L.H., Derge J.G.,  
Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,  
Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,  
Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,  
Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,  
Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,  
Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,  
Raha S.S., Lequellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,  
Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,  
Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,  
Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,  
Fahey J., Helton E., Kettman M., Madan A., Rodriguez S., Sanchez A.,  
Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,  
Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,  
Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,  
Butterfield Y.S.N., Krzywicki M.I., Skalska U., Smallos D.E.,  
Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;  
"Generation and initial analysis of more than 15,000 full-length human  
and mouse cDNA sequences.";  
Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).  
[6]

PROTEIN SEQUENCE OF 29-43.  
PubMed=15340161; DOI=10.1110/ps.04682504;

Zhang Z., Henzel W.J.;  
"Signal peptide prediction based on analysis of experimentally  
verified cleavage sites.";  
Protein Sci. 13:2819-2824(2004).  
[7]

INTERACTION WITH JAM3.

PubMed=11590146; DOI=10.1074/jbc.M105972200;  
Arrate M.P., Rodriguez J.M., Tran T.M., Brock T.A., Cunningham S.A.;  
"Cloning of human junctional adhesion molecule 3 (JAM3) and its  
identification as the JAM2 counter-receptor.";  
J. Biol. Chem. 276:45826-45832(2001).  
[8]

REVIEW, AND NOMENCLATURE.

PubMed=12810109; DOI=10.1016/S1471-4906(03)00117-0;  
Muller W.A.;

"Leukocyte-endothelial-cell interactions in leukocyte transmigration  
and the inflammatory response.";  
Trends Immunol. 24:327-334(2003).  
[9]

-1- FUNCTION: May play a role in the processes of lymphocyte homing to  
secondary lymphoid organs.

-1- SUBUNIT: Interacts with JAM3.

-1- SUBCELLULAR LOCATION: Type I membrane protein (Potential).

Localized at tight junctions of both epithelial and endothelial  
cells (By similarity).

-1- TISSUE SPECIFICITY: Highest expression in the heart, placenta,  
lung, foreskin and lymph node. Prominently expressed on high  
endothelial venules, also present on the endothelia of other  
vessels. Localized to the intercellular boundaries of high  
endothelial cells.

-1- SIMILARITY: Belongs to the immunoglobulin superfamily.

-1- SIMILARITY: Contains 1 Ig-like C2-type (immunoglobulin-like)

domain.

-1- SIMILARITY: Contains 1 Ig-like V-type (immunoglobulin-like)

domain.

-----  
This Swiss-Prot entry is copyright. It is produced through a collaboration  
between the Swiss Institute of Bioinformatics and the EMBL outstation -  
the European Bioinformatics Institute. There are no restrictions on its  
use as long as its content is in no way modified and this statement is not  
removed.  
-----

EMBL; AF255910; AAPB1223.1; -; mRNA.

DR EMBL; AY016009; AAG49022.1; -; mRNA.  
DR EMBL; AY077698; AAL82538.1; -; mRNA.  
DR EMBL; AY358361; AAQ88727.1; -; mRNA.  
DR EMBL; BC017779; AAH17779.1; -; mRNA.  
DR HSP; O88792; IF97.  
DR Eneemb1; ENSG00000154721; Homo sapiens.  
DR HGNC; HGNC:14686; JAM2.  
DR H-InvdB; HIX0016038; -.  
DR MIM; 606870; -.  
DR GO; GO:0005887; C: integral to plasma membrane; NAS.  
DR GO; GO:0016337; P: cell-cell adhesion; NAS.  
DR InterPro; IPR007110; Ig-like.  
DR InterPro; IPR003598; Ig\_c2.  
DR Pfam; PF00047; Ig; 1.  
DR SMART; SM00408; IGC2; 1.  
DR PROSITE; PS00835; IG\_LIKE; 2.  
DR Direct protein sequencing; Glycoprotein; Immunoglobulin domain;  
KW Signal; Tight junction; Transmembrane.  
FT SIGNAL 1 28  
FT CHAIN 29 298 Junctional adhesion molecule B.  
FT TOPO\_DOM 29 238 Extracellular (Potential).  
FT TRANSMEM 239 259 Potential.  
FT TOPO\_DOM 260 298 Cytoplasmic (Potential).  
FT DOMAIN 32 127 Ig-like V-type.  
FT DOMAIN 134 238 Ig-like C2-type.  
FT CARBOHYD 98 98 N-linked (GlcNAc...) (Potential).  
FT CARBOHYD 187 187 N-linked (GlcNAc...) (Potential).  
FT DISULFID 50 109 Potential.  
FT DISULFID 155 214 Potential.  
FT CONFLICT 270 270 E -> G (in Ref. 3).  
FT CONFLICT 289 298 DFKHTKSPFI -> VQWLTPVPALWKAAGSGRGQSF  
FT (in Ref. 4).  
SQ SEQUENCE 298 AA; 33207 MW; CA78E518E22DCABE CRC64;

Query Match 91.9%; Score 1475; DB 1; Length 298;

Best Local Similarity 100.0%; Pred. No. 4.5e-111;

Matches 288; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MARRSRHRLLLRLYLVALGKAYGFSAPKQDQVAVYQEQAILACKTPKKTVSSR 60

Db 1 MARRSRHRLLLRLYLVALGKAYGFSAPKQDQVAVYQEQAILACKTPKKTVSSR 60

Qy 61 LEWKKLGSRVSFVYQOTLOGDFKNRAEMIDFNIRKNVTRSDAGKYRCVSAFSEQGN 120

Db 61 LEWKKLGSRVSFVYQOTLOGDFKNRAEMIDFNIRKNVTRSDAGKYRCVSAFSEQGN 120

Qy 121 LEEDTTLVLELVAPVAPSPCEVPSSALSGTIVVELRCQEGNPAPEYTFWKGIRLLNPR 180

Db 121 LEEDTTLVLELVAPVAPSPCEVPSSALSGTIVVELRCQEGNPAPEYTFWKGIRLLNPR 180

Qy 181 LGSQSTNSSYTMTKTGLQFNTVSKLDTCEYSCAARNVGYRCPCGRQVQVDDNLISGI 240

Db 181 LGSQSTNSSYTMTKTGLQFNTVSKLDTCEYSCAARNVGYRCPCGRQVQVDDNLISGI 240

Qy 241 IAAVVVALVISVGLGVCYVAORGYFSEKTSFKSNSSSKATTMSN 288

Db 241 IAAVVVALVISVGLGVCYVAORGYFSEKTSFKSNSSSKATTMSN 288

RESULT 2

JAM2\_MOUSE

ID JAM2\_MOUSE STANDARD; PRT; 298 AA.

AC Q9U159; Q8CSK9; Q8CE95;

DT 10-MAY-2005 (Rel. 47, Created)

DT 10-MAY-2005 (Rel. 47, Last sequence update)

DT 10-MAY-2005 (Rel. 47, Last annotation update)

DE Junctional adhesion molecule B precursor (JAM-B) (Junctional adhesion

molecule 2) (Vascular endothelial junction-associated molecule) (VE-

JAM).

GN Name=Jam2; Synonym=Vejam;

OS Mus musculus (Mouse).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;  
OX Muridae; Muridae; Murinae; Mus.  
RN NCBI TaxID=10090;  
RP NUCLEOTIDE SEQUENCE, AND PROTEIN SEQUENCE OF 29-33.  
RC STRAIN=C57BL/6J; PubMed=10779521; DOI=10.1074/jbc.M003189200;  
RX MEDLINE=203117114; PubMed=10779521; DOI=10.1074/jbc.M003189200;  
RA Palmeri D., van Zante A., Huang C.-C., Hemmerich S., Rosen S.D.;  
RT "Vascular endothelial junction-associated molecule, a novel member of  
RT the immunoglobulin superfamily, is localized to intercellular  
RT boundaries of endothelial cells".  
RL J. Biol. Chem. 275:19139-19145(2000).  
RN [2]  
RP NUCLEOTIDE SEQUENCE, AND SUBCELLULAR LOCATION.  
RX MEDLINE=20489356; PubMed=11036763;  
RA Aurand-Lions M.A., Duncan L., Du Pasquier L., Imhof B.A.;  
RT "Cloning of JAM-2 and JAM-3: an emerging junctional adhesion molecular  
RT family?".  
RL Curr. Top. Microbiol. Immunol. 251:91-98(2000).  
RN [3]  
RP NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA].  
RC STRAIN=C57BL/6J; TISSUE=Head, Medulla oblongata, and Skin;  
RX MEDLINE=22354683; PubMed=12466851; DOI=10.1038/nature01266;  
RA Okazaki Y., Furuno M., Kasukawa T., Adachi J., Bono H., Kondo S.,  
RA Nikaide I., Oeato N., Saito R., Suzuki H., Yamanaka I., Kiyosawa H.,  
RA Yagi K., Tomaru Y., Hasegawa Y., Nogami A., Schonbach C., Gojobori T.,  
RA Baldarelli R., Hill D.P., Bult C., Hume D.A., Quackenbush J.,  
RA Schriml L.M., Kanapin A., Matsuda H., Batalov S., Beisel K.W.,  
RA Blake J.A., Bradt D., Brusic V., Chothia C., Corbani L.E., Cousins S.,  
RA Dalla E., Dragani T.A., Fletcher C.F., Forrest A., Frazer K.S.,  
RA Gaasterland T., Gariboldi M., Giesi C., Godzik A., Gough J.,  
RA Grimmer S., Gustincich S., Hirokawa N., Jackson I.J., Jarvis E.D.,  
RA Kanai A., Kawaji H., Kawasawa Y., Kedzierski R.M., King B.L.,  
RA Konagaya A., Kurochkin I.V., Lee Y., Lenhard B., Lyons P.A.,  
RA Maglott D.R., Maltais L., Marchionni L., McKenzie L., Miki H.,  
RA Nagashima T., Numa K., Okido T., Pavan W.J., Pertea G., Pesole G.,  
RA Petrovsky N., Pillai R., Pontius J.U., Qi D., Ramchandran S.,  
RA Ravasi T., Reed J.C., Reid J., Ring B.Z., Ringwald M.,  
RA Sadelain A., Schneider C., Semple C.A., Setou M., Shimada K.,  
RA Sultana R., Takenaka Y., Taylor M.S., Teasdale R.D., Tomita M.,  
RA Verardo R., Wagner L., Wahlestedt C., Wang Y., Watanabe Y., Wells C.,  
RA Wilming L.G., Wyszynski-Boris A., Yanagisawa M., Yang I., Yang L.,  
RA Yuan Z., Zavolan M., Zhu Y., Zimmer A., Carninci P., Hayatsu N.,  
RA Hirozane-Kishikawa T., Konno H., Nakamura M., Sakazume N., Sato K.,  
RA Shiraki T., Waki K., Kawai J., Aizawa K., Arakawa T., Fukuda S.,  
RA Hara A., Hashizume W., Imotani K., Ishii Y., Itoh M., Kagawa I.,  
RA Miyazaki A., Sakai K., Sasaki D., Shibata K., Shinagawa A.,  
RA Yasunishi A., Yoshino M., Waterston R., Lander E.S., Rogers J.,  
RA Birney E., Hayashizaki Y.;  
RT "Analysis of the mouse transcriptome based on functional annotation of  
RT 60,770 full-length cDNAs".  
RL Nature 420:563-573(2002).  
RN [4]  
RP NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA].  
RC STRAIN=C57BL/6J; TISSUE=Mammary gland;  
RX MEDLINE=22389257; PubMed=12477932; DOI=10.1073/pnas.242603899;  
RA Straube R.L., Feingold E.A., Grouse L.H., Derge J.G.,  
RA Klausner R.D., Collins P.S., Wagner L., Shenmen C.M., Schuler G.D.,  
RA Allecchi S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,  
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,  
RA Datchenko L., Maruina K., Farmer A.A., Rubin G.M., Hong L.,  
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,  
RA Brownstein M.J., Udell T.B., Toehiyuki S., Carninci P., Prange C.,  
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullaly S.J.,  
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,  
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,  
RA Villalon D.K., Muzny D.C., Sodergren E.J., Lu X., Gibbs S.W.,  
RA Fabey J., Helton E., Kettman M., Madan A., Rodrigues S., Sanchez A.,  
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,  
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,  
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,  
RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smallos D.E.,  
RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;

RT "Generation and initial analysis of more than 15,000 full-length human  
RT and mouse cDNA sequences.";  
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).  
RN [5]  
RP REVIEW, AND NOMENCLATURE.  
RX PubMed=12810109; DOI=10.1016/S1471-4906(03)00117-0;  
RA Muller W.A.;  
RT "Leukocyte-endothelial-cell interactions in leukocyte transmigration  
RT and the inflammatory response.";  
RL Trends Immunol. 24:327-334(2003).  
CC -!- FUNCTION: May play a role in the processes of lymphocyte homing to  
CC secondary lymphoid organs (By similarity).  
CC -!- SUBUNIT: Interacts with JAM3 (By similarity).  
CC -!- SUBCELLULAR LOCATION: Type I membrane protein (Potential).  
CC Localized at tight junctions of both epithelial and endothelial  
CC cells.  
CC -!- SIMILARITY: Belongs to the immunoglobulin superfamily.  
CC -!- SIMILARITY: Contains 1 Ig-like C2-type (immunoglobulin-like)  
CC domain.  
CC -!- SIMILARITY: Contains 1 Ig-like V-type (immunoglobulin-like)  
CC domain.  
CC -----  
CC This Swiss-Prot entry is copyright. It is produced through a collaboration  
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -  
CC the European Bioinformatics Institute. There are no restrictions on its  
CC use as long as its content is in no way modified and this statement is not  
CC removed.  
CC -----  
DR EMBL; AF255911; AAF81224.1; -; mRNA.  
DR EMBL; AJ291757; CAC20699.1; -; mRNA.  
DR EMBL; AK010616; BAB27064.1; -; mRNA.  
DR EMBL; AK013914; BAB29053.1; -; mRNA.  
DR EMBL; AK028757; BAC26102.1; -; mRNA.  
DR EMBL; AK078128; BAC37139.1; -; mRNA.  
DR EMBL; BC028778; AAB28778.1; -; mRNA.  
DR HSSP; O88792; 1F97.  
DR Ensembl; ENSMUSG0000053062; Mus musculus.  
DR MGI; MGI:1933820; Jam2.  
DR GO; GO:0005615; C:extracellular space; TAS.  
DR GO; GO:0016021; C:integral to membrane; TAS.  
DR InterPro; IPR003599; IG.  
DR InterPro; IPR007110; IG-like.  
DR InterPro; IPR003598; IG\_C2.  
DR InterPro; IPR003596; IG\_V.  
DR Pfam; PF00047; Ig\_1.  
DR SMART; SM00409; IG; 2.  
DR SMART; SM00408; IGC2; 2.  
DR SMART; SM00406; IGV; 1.  
DR PROSITE; PS00835; IG LIKE; 2.  
KW Direct protein sequencing; Glycoprotein; Immunoglobulin domain;  
KW Signal, Tight junction; Transmembrane.  
FT SIGNAL 1 28  
FT CHAIN 29 298  
FT TOPO DOM 29 236  
FT TRANSMEM 237 257  
FT TOPO DOM 258 298  
FT DOMAIN 32 128  
FT DOMAIN 135 238  
FT CARBOHYD 99 99  
FT DISULFID 51 110  
FT DISULFID 156 214  
FT CONFLICT 133 133 V -> M (in Ref. 3; BAC26102).  
FT CONFLICT 174 174 T -> H (in Ref. 3; BAC37139).  
FT CONFLICT 183 183 G -> R (in Ref. 3; BAC37139).  
SQ SEQUENCE 298 AA; 33047 MW; 1124E0F07E6CF751 CRC64;  
Query Match 73.0%; Score 1172; DB 1; Length 298;  
Best Local Similarity 78.5%; Pred. No. 1.5e-86;  
Matches 227; Conservative 25; Mismatches 35; Indels 2; Gaps 2;  
Oy 1 MARSRRHLLLLLLRYLVVAGLYKAYGFSAPKD-QQVTAVEYQEAAILACKTPKTVSS 59  
Db 1 MARSPOGLMLLLLYLITVALDYHKAGFSASKDHRQEVTVIEFQEAAILACKTPKTVSS 60

```
Qy 60 RLEWKKLGRSVSFYVYQOTLQGDPKRAEMIDFNIRIKNVTRSDAGKYRCEVSAPSQGQ 119
Db 61 RLEWKKVGGVSLVYVYQALQDQKRAEMIDFNIRIKNVTRSDAGEYRCEVSAPTEBQG 120
Qy 120 NLEEDTIVLEVLVAPVPSCEVPSSALSGTVVLELRCDKGNPAPEYTFWPKDGIIRLLENP 179
Db 121 NLQEDKWLVLVAPVAPVACEVPSVMTGVSVELRCQDKGNPAPEYTFWPKDGTSLGNP 180
Qy 180 RLGSQSTNSSTYMTKGTGLQNTVSKLDTGEYSCEARNVSGYRCPGKRMQVDDLNISG 239
Db 181 K-CGTHNNSSTYMTKSGILQFNIMSKMDSGEYCEARNVSGHRRCPGKRMQVDDLVNISG 239
Qy 240 IIAAVVVVALVISVCGLGVCVAQRKGYSKTSFQKSNSSSKATMTSEN 288
Db 240 IIAATVVVAFVISVCGLGTCVAQRKGYSKTSFQKSGPASKVTTMTSEN 288

RESULT 3
Q5ZJD1_CHICK PRELIMINARY; PRT; 243 AA.
AC Q5ZJD1;
DT 25-OCT-2004 (TrEMBLrel. 28, Created)
DT 25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
DE Hypothetical protein.
GN ORFNames=RCJMB04_19d4;
OS Gallus gallus (Chicken).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
OC Gallus.
OX NCBI_TaxID=9031;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=CB; TISSUE=Bursa;
RA Caldwell R.B., Kiersek A.M., Arakawa H., Bezzubov Y., Zaim J.,
RA Fiedler P., Kutter S., Blegodatski A., Kostovska D., Koter M.,
RA Plachy J., Carninci P., Hayashizaki Y., Buerstedde J.M.;
RT "Full-length cDNAs from chicken bursal lymphocytes to facilitate
RL genome function analysis.";
DR EMBL; AJ720503; CAG32162.1; -; mRNA.
DR InterPro; IPR007110; IG-like.
DR InterPro; IPR003598; IG_C2.
DR Pfam; PF00047; Ig_1.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS50835; IG Like; 1.
KW Hypothetical protein; Immunoglobulin domain; Transmembrane.
SQ SEQUENCE 243 AA; 26738 MW; CIAELCCD111A4383 CRC64;

Query Match 37.3%; Score 598.5; DB 2; Length 243;
Best Local Similarity 48.4%; Pred. NO. 3.3e-40;
Matches 134; Conservative 32; Mismatches 55; Indels 56; Gaps 7;

Qy 8 RLLLLRLVVLVGLYHKAYGSPAKQOQVTAVEYQEAAILACKTP-KKTVSSRLWKKL 66
Db 5 RRLRLLLGLVGV-FCYHKVGTGIAETDNKNVKAEEFKRAILSKHKFKSGMSLRIWKKI 63
Qy 67 -GRSVSFYVYQOTLQGDPKRAEMIDFNIRIKNVTRSDAGKYRCEVSAPSQGNLEBDT 125
Db 64 QSQEVSFYVY---NGEF----- 77
Qy 126 VTLVLVAPVPSCEVPSSALSGTVVLELRCDKGNPAPEYTFWPKDGIIRLLENPRLGSQS 185
Db 78 -----TVPPTTPICVWPNSAMTGTIVELSCKEAGSPSPSEYQWYKNGVALLKTKTGSAR 132
Qy 186 T-NSSTYMTNTKGTGLQNTVSKLDTGEYSCEARNVSGY-RRCPGKRMQVDDLNISGIITAA 243
Db 133 TANITYTNKKSGLTIFNTVSKNDTGEYFCVASNGIGLPQKCSMKRMQVDDLVNLSGIITAA 192
Qy 244 VVVVALVISVCGLGVCVAQRKGYSKTSFQKSNSSS 280
Db 193 VVIVALVVALCGLGLVLYAQKKGYYFTKESSSQKSNSSQS 229
```

```
RESULT 4
Q9CWD9_MOUSE PRELIMINARY; PRT; 181 AA.
AC Q9CWD9;
DT 01-JUN-2001 (TrEMBLrel. 17, Created)
DT 01-JUN-2001 (TrEMBLrel. 17, Last sequence update)
DE Mus musculus ES cells cDNA, RIKEN full-length enriched library,
DE clone:2410167M24 product:junction cell adhesion molecule 2, full
DE insert sequence (Mus musculus 9.5 days embryo parthenogenote cDNA,
DE RIKEN full-length enriched library, clone:B130032E13 product:junction
DE cell adhesion molecule 2, full insert sequence).
GN Name=Jam2;
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;
OC Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=C57BL/6J; TISSUE=Parthenogenote;
DE MEDLINE=99279253; PubMed=10349636; DOI=10.1016/S0076-6879(99)03004-9;
RA Carninci P., Hayashizaki Y.;
RT "High-efficiency full-length cDNA cloning.";
RL Meth. Enzymol. 303:19-44(1999).
RN [2]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=C57BL/6J; TISSUE=Parthenogenote;
DE MEDLINE=21085660; PubMed=11217851; DOI=10.1038/35055500;
RA Kawai J., Shinagawa A., Shibata K., Yoshino M., Itoh M., Ishii Y.,
RA Arakawa T., Hara A., Fukunishi Y., Konno H., Adachi J., Fukuda S.,
RA Aizawa K., Izawa M., Nishi K., Kiyosawa H., Kondo S., Yamanaka I.,
RA Saito T., Okazaki Y., Gojobori T., Bono H., Kasukawa T., Saito R.,
RA Kadota K., Matsuda H.A., Ashburner M., Batalov S., Casavant T.,
RA Fleischmann W., Gaasterland T., Gissi C., King B., Kochiwa H.,
RA Kuehl P., Lewis S., Matsuo Y., Nikaido I., Pesole G., Quackenbush J.,
RA Schriml L.M., Staebli F., Suzuki R., Tomita M., Wagner L., Washio T.,
RA Sakai K., Okido T., Furuno M., Aono H., Baldarelli R., Barh G.,
RA Blake J., Boffelli D., Bojunga N., Carninci P., de Bonaldo M.F.,
RA Brownstein M.J., Bult C., Fletcher C., Fujita M., Gariboldi M.,
RA Gustincich S., Hill D., Hofmann M., Hume D.A., Kamiya M., Lee N.H.,
RA Lyons P., Marchionni L., Mashima J., Mazzarelli J., Mombaerts P.,
RA Nordone P., King B., Kingwald M., Rodriguez I., Sakamoto N.,
RA Sasaki H., Sato K., Schoenbach C., Seya T., Shibata Y., Storch K.-F.,
RA Suzuki H., Toyooka K., Wang K.H., Weitz C., Whittaker C., Wilming L.,
RA Wyszewski-Boris A., Yoshida K., Hasegawa Y., Kawaji H., Kohtsuki S.,
RA Hayashizaki Y.;
RT "Functional annotation of a full-length mouse cDNA collection.";
RL Nature 409:685-690(2001).
RN [3]
RP NUCLEOTIDE SEQUENCE.
RC STRAIN=C57BL/6J; TISSUE=Parthenogenote;
DE MEDLINE=22354683; PubMed=12466851; DOI=10.1038/nature01266;
RA Okazaki Y., Furuno M., Kasukawa T., Adachi J., Bono H., Kondo S.,
RA Nikaido I., Osato R., Saito R., Suzuki R., Yamanaka I., Kiyosawa H.,
RA Yagi K., Tomaru Y., Hasegawa Y., Nogami A., Schonbach C., Gojobori T.,
RA Baldarelli R., Hill D.P., Bult C., Hume D.A., Quackenbush J.,
RA Schriml L.M., Kanapin A., Matsuda H., Batalov S., Beisel K.W.,
RA Blake J.A., Bradt D., Bruscia V., Chothia C., Corbani L.E., Cousins S.,
RA Dalla E., Dragani T.A., Fletcher C.F., Forrest A., Frazer K.S.,
RA Gaasterland T., Gariboldi M., Gissi C., Godzik A., Gough J.,
RA Grimmer S., Gustincich S., Hirokawa N., Jackson I.J., Jarvis E.D.,
RA Kanai A., Kawaji H., Kawasawa Y., Kedzierski R.M., King B.L.,
RA Kanagawa A., Kurochkin I.V., Lee Y., Lenhard B., Lyons P.A.,
RA MacIot D.R., Maltais L., Marchionni L., McKenzie L., Miki H.,
RA Negashima T., Numata K., Okido T., Pavan W.J., Pertea G., Pesole G.,
RA Petrovsky N., Pillai R., Pontius J.U., Qi D., Ramachandran S.,
RA Ravasi T., Reed J.C., Reed D.J., Reid J., Ring B.Z., Ringwald M.,
RA Sadelin A., Schneider C., Semple C.A., Setou M., Shimada K.,
RA Sultana R., Takenaka Y., Taylor M.S., Teasdale R.D., Tomita M.,
RA Verardo R., Wagner L., Wahlestedt C., Wang Y., Watanabe Y., Wells C.,
```

RA Wilming L.G., Wynshaw-Boris A., Yanagisawa M., Yang I., Yang L.,  
RA Yuan Z., Zavolan A., Zhu Y., Zimmer A., Carninci P., Hayatsu N.,  
RA Hirazane-Kishikawa T., Konno H., Nakamura M., Sakazume N., Sato K.,  
RA Shiraki T., Waki K., Kawai J., Aizawa K., Arakawa T., Fukuda S.,  
RA Hara A., Hashizume W., Imotani K., Imotani K., Itoh M., Kagawa I.,  
RA Miyazaki A., Sakai K., Sasaki D., Shibata K., Shinagawa A.,  
RA Yasunishi A., Yoshino M., Waterston R., Lander E.S., Rogers J.,  
RA Birney E., Hayashizaki Y.,  
RT "Analysis of the mouse transcriptome based on functional annotation of  
RT 60,770 full-length cDNAs.";  
RL Nature 420:563-573 (2002).  
RN [4]  
RP NUCLEOTIDE SEQUENCE.  
RC STRAIN=C57BL/6J; TISSUE=Parthenogenote;  
RX MEDLINE=20499374; PubMed=11042159; DOI=10.1101/gr.145100;  
RA Carninci P., Shibata Y., Hayateu N., Sugahara Y., Shibata K., Itoh M.,  
RA Konno H., Okazaki Y., Muramatsu M., Hayashizaki Y.,  
RT "Normalization and subtraction of cap-trapper-selected cDNAs to  
RT prepare full-length cDNA libraries for rapid discovery of new genes.";  
RL Genome Res. 10:1617-1630 (2000).  
RN [5]  
RP NUCLEOTIDE SEQUENCE.  
RC STRAIN=C57BL/6J; TISSUE=Parthenogenote;  
RX MEDLINE=20530913; PubMed=11076861; DOI=10.1101/gr.152600;  
RA Shibata K., Itoh M., Aizawa K., Nagao S., Sasaki N., Carninci P.,  
RA Konno H., Akiyama J., Nishi K., Kitsuunai T., Tashiro H., Itoh M.,  
RA Sumi N., Ishii Y., Nakamura S., Hazama M., Nishine T., Harada A.,  
RA Yamamoto S., Matsumoto H., Sakaguchi S., Ikegami T., Kaehiwagi K.,  
RA Fujiwara K., Inoue K., Togawa Y., Izawa M., Ohara E., Watahiki M.,  
RA Yoneda Y., Ishikawa T., Ozawa K., Tanaka T., Matsura S., Kawai J.,  
RA Okazaki Y., Muramatsu M., Inoue Y., Kira A., Hayashizaki Y.,  
RT "RIKEN integrated sequence analysis (RISA) system-384-format  
RT sequencing pipeline with 384 multicapillary sequencer.";  
RL Genome Res. 10:1757-1771 (2000).  
RN [6]  
RP NUCLEOTIDE SEQUENCE.  
RC STRAIN=C57BL/6J;  
RX STRAIN=C57BL/6J;  
RA Adachi J., Aizawa K., Akahira S., Akimura T., Arai A., Aono H.,  
RA Arakawa T., Bono H., Carninci P., Fukuda S., Fukunishi Y., Furuno M.,  
RA Hanagaki T., Hara A., Hayateu N., Hiramoto K., Hiraoka T., Hori F.,  
RA Imotani K., Ishii Y., Itoh M., Izawa M., Kasukawa T., Kato H.,  
RA Kawai J., Kojima Y., Konno H., Kouda M., Koya S., Kurihara C.,  
RA Matsuyama T., Miyazaki A., Nishi K., Nomura K., Numazaki R., Ohno M.,  
RA Okazaki Y., Okido T., Owa C., Saito H., Saito R., Sakai C., Sakai K.,  
RA Sano H., Sasaki D., Shibata K., Shibata Y., Shinagawa A., Shiraki T.,  
RA Sogabe Y., Suzuki H., Tagami M., Tagawa A., Takahashi F., Tanaka T.,  
RA Tejima Y., Toya T., Yanamura T., Yasunishi A., Yoshida K., Yoshino M.,  
RA Muramatsu M., Hayashizaki Y.,  
RL Submitted (JUL-2000) to the EMBL/GenBank/DBJ databases.  
RN [7]  
RP NUCLEOTIDE SEQUENCE.  
RC STRAIN=C57BL/6J; TISSUE=Parthenogenote;  
RA Adachi J., Aizawa K., Akimura T., Arakawa T., Bono H., Carninci P.,  
RA Fukuda S., Furuno M., Hanagaki T., Hara A., Hashizume W.,  
RA Hayashida K., Hayatsu N., Hiramoto K., Hiraoka T., Hirozawa T.,  
RA Hori F., Imotani K., Ishii Y., Itoh M., Kagawa I., Kasukawa T.,  
RA Kato H., Kawai J., Kojima Y., Kondo S., Konno H., Kouda M., Koya S.,  
RA Kurihara C., Matsuyama T., Miyazaki A., Murata M., Nakamura M.,  
RA Nishi K., Nomura K., Numazaki R., Ohno M., Ohsato N., Okazaki Y.,  
RA Saito R., Saitoh K., Sakai C., Sakai K., Sakazume N., Sano H.,  
RA Sasaki D., Shibata K., Shinagawa A., Shiraki T., Sogabe Y., Tagami M.,  
RA Tagawa A., Takahashi F., Takaku-Akahira S., Takeda Y., Tanaka T.,  
RA Tomaru A., Toya T., Yasunishi A., Muramatsu M., Hayashizaki Y.,  
RL Submitted (JUL-2001) to the EMBL/GenBank/DBJ databases.  
DR EMBL; AK010826; BAB27208.1; -; mRNA.  
DR EMBL; AK045095; BAC32219.1; -; mRNA.  
DR HSSP; 088792; 1F97.  
DR Ensembl; ENSMUSG0000053062; Mus musculus.  
DR MGI; MGI:1933820; Jam2.  
DR GO; GO:0005615; C:extracellular space; TAS.  
DR GO; GO:0016021; C:integral to membrane; TAS.  
DR InterPro; IPR003599; Ig.  
DR InterPro; IPR007110; Ig-like.

DR SMART; SM00409; IG; 1.  
DR PROSITE; PS00835; IG LIKE; 1.  
KW Immunoglobulin domain.  
SQ SEQUENCE 181 AA; 20330 MW; 603B6114FBB11AEB CRC64;  
Query Match 32.2%; Score 517.5; DB 2; Length 181;  
Best Local Similarity 78.0%; Pred. No. 8.4e-34;  
Matches 103; Conservative 12; Mismatches 16; Indels 1; Gaps 1;  
QY 1 MARSRRHLLLLLLLYLVVVALGYHKAYGFSAPKD-QQVVTAVYQEAALACKTPKKTSS 59  
DB 1 MARSFQGLMLLLLYLVVVALGYHKAYGFSAPKD-QQVVTAVYQEAALACKTPKKTSS 60  
QY 60 RLEWKILGRSVSFVYQOTLQGDGFKRAEMIDFNIRKNVTRSDAGKRCVSPSEGO 119  
DB 61 RLEWKVQGVSLVYQALQGDGFKRAEMIDFNIRKNVTRSDAGKRCVSPSEGO 120  
QY 120 NLEEDTVTVLEVL 131  
DB 121 NLEEDTVTVLEVL 132  
RESULT 5  
JAM3 MOUSE  
ID JAM3 MOUSE STANDARD; PRT; 310 AA.  
AC Q9DBB7; Q9BTS9; Q9DLM9; Q9EPK4;  
DT 10-MAY-2005 (Rel. 47, Created)  
DT 10-MAY-2005 (Rel. 47, Last sequence update)  
DT 10-MAY-2005 (Rel. 47, Last annotation update)  
DE Junctional adhesion molecule C precursor (JAM-C) (Junctional adhesion  
DE molecule 3) (JAM-3) (JAM-2).  
GN Name=Jam3;  
OS Mus musculus (Mouse).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Mammalia; Eutheria; Euarchontoglires; Glires; Rodentia; Sciurognathi;  
OC Muridea; Muridae; Murinae; Mus.  
OX NCBI\_TaxID=10090;  
RN [1]  
RP NUCLEOTIDE SEQUENCE [MRNA].  
RX MEDLINE=20483356; PubMed=11036763;  
RA Aurand-Lions M.A., Duncan L., Du Pasquier L., Imhof B.A.;  
RT "Cloning of JAM-2 and JAM-3: an emerging junctional adhesion molecular  
RT family?";  
RL Curr. Top. Microbiol. Immunol. 251:91-98 (2000).  
RN [2]  
RP NUCLEOTIDE SEQUENCE [MRNA].  
RX MEDLINE=21264728; PubMed=11053409; DOI=10.1074/jbc.M005458200;  
RA Aurand-Lions M.A., Duncan L., Baldestrem C., Imhof B.A.;  
RT "JAM-2, a novel immunoglobulin superfamily molecule, expressed by  
RT endothelial and lymphatic cells";  
RL J. Biol. Chem. 276:2733-2741 (2001).  
RN [3]  
RP NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA].  
RC STRAIN=C57BL/6J; TISSUE=Embryo, Small intestine, and Wolffian duct;  
RX MEDLINE=202354683; PubMed=12466851; DOI=10.1038/nature01266;  
RA Okazaki Y., Furuno M., Kasukawa T., Adachi J., Bono H., Kondo S.,  
RA Nishida I., Osato N., Saito R., Suzuki H., Yananaka I., Kiyosawa H.,  
RA Yagi K., Tomaru Y., Hasegawa Y., Nogami A., Schonbach C., Gojobori T.,  
RA Baldarelli R., Hill D.P., Bult C., Hume D.A., Quackenbush J.,  
RA Schriml L.M., Kanapin A., Matsuda H., Batalov S., Beisel K.W.,  
RA Blake J.A., Bradt D., Brusic V., Chothia C., Corbani L.E., Cousins S.,  
RA Dalla E., Dragani T.A., Fletcher C.F., Forrest A., Frazer K.S.,  
RA Gassterland T., Gariboldi M., Giasi C., Godzik A., Gough J.,  
RA Grimmond S., Gustincich S., Hirokawa N., Jackson I.J., Jarvis E.D.,  
RA Kanai A., Kawaji H., Kawasawa Y., Kedzierski R.M., King B.L.,  
RA Konagaya A., Kurochkin I.V., Lee Y., Lenhard B., Lyons P.A.,  
RA Maglott D.R., Maltais L., Marchionni L., McKenzie L., Miki H.,  
RA Nagashima T., Numata K., Okido T., Pavan W.J., Pertea G., Pesole G.,  
RA Petrovsky N., Pillai R., Pontius J.U., Qi D., Ramachandran S.,  
RA Ravasi T., Reed J.C., Reed D.J., Reid J., Ring B.Z., Ringwald M.,  
RA Sandelin A., Schneider C., Semple C.A., Setou M., Shimada K.,  
RA Sultana R., Takenaka Y., Taylor M.S., Teasdale R.D., Tomita M.,  
RA Verardo R., Wagner L., Wahlestedt C., Wang Y., Watanabe Y., Wells C.,

RA Wilming L.G., Wynshaw-Boris A., Yanagisawa M., Yang I., Yang L.,  
RA Yuan Z., Zavolan M., Zhu Y., Zimmer A., Carninci P., Hayatsu N.,  
RA Hirozane-Kishikawa T., Konno H., Nakamura M., Sakazume N., Sato K.,  
RA Shiraki T., Waki K., Kawai J., Aizawa K., Arakawa T., Fukuda S.,  
RA Hara A., Hashizume W., Imotani K., Ishii Y., Itoh M., Kagawa I.,  
RA Miyazaki A., Sakai K., Sakai D., Shibata K., Shinagawa A.,  
RA Yasunishi A., Yoshino M., Waterston R., Lander E.S., Rogers J.,  
RA Birney E., Havaashizaki Y.,  
RT "Analysis of the mouse transcriptome based on functional annotation of  
RT 60,770 full-length cDNAs";  
RL Nature 420:563-573 (2002).  
RN [4]  
RP NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA].  
RC STRAIN=FVB/N; TISSUE=Kidney;  
RX MEDLINE=2238257; PubMed=12477932; DOI=10.1073/pnas.242603899;  
RA Strausberg R.L., Feingold E.A., Grouse L.H., Berge J.G.,  
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,  
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,  
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Heieh F.,  
RA Diachenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,  
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,  
RA Brownstein M.J., Udén T.B., Toshiyuki S., Carninci P., Prange C.,  
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,  
RA Bobak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,  
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,  
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,  
RA Fahey J., Helton E., Kettman M., Madan A., Rodriguez S., Sanchez A.,  
RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,  
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,  
RA Rodriguez A.C., Grifwood J., Schmutz J., Myers R.M.,  
RA Butterfield Y.S.N., Krawinski M.I., Skalska U., Smallos D.E.,  
RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.,  
RT "Generation and initial analysis of more than 15,000 full-length human  
RT and mouse cDNA sequences";  
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).  
RN [5]  
RP FUNCTION, AND TISSUE SPECIFICITY.  
RX PubMed=11739175; DOI=10.1182/blood.V98.13.3699;  
RA Aurrand-Lions M.A., Johnson-Leger C., Wong C., Du Pasquier L.,  
RA Imhof B.A.,  
RT "Heterogeneity of endothelial junctions is reflected by three JAM  
RT expression and specific subcellular localization of the three JAM  
RT family members";  
RL Blood 98:3699-3707 (2001).  
RN [6]  
RP REVIEW, AND Nomenclature.  
RX PubMed=12810109; DOI=10.1016/S1471-4906(03)00117-0;  
RA Muller W.A.,  
RT "Leukocyte-endothelial-cell interactions in leukocyte transmigration  
RT and the inflammatory response";  
RL Trends Immunol. 24:327-334 (2003).  
CC -1- FUNCTION: May participate in cell-cell adhesion distinct from  
CC tight junctions.  
CC -1- SUBUNIT: Interacts with JAM2 (By similarity).  
CC -1- SUBCELLULAR LOCATION: Type I membrane protein (Potential).  
CC -1- TISSUE SPECIFICITY: Endothelial cells.  
CC -1- SIMILARITY: Belongs to the immunoglobulin superfamily.  
CC -1- SIMILARITY: Contains 1 Ig-like C2-type (immunoglobulin-like)  
CC domain.  
CC -1- SIMILARITY: Contains 1 Ig-like V-type (immunoglobulin-like)  
CC domain.  
CC -----  
CC This Swiss-Prot entry is copyright. It is produced through a collaboration  
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -  
CC the European Bioinformatics Institute. There are no restrictions on its  
CC use as long as its content is in no way modified and this statement is not  
CC removed.  
CC -----  
DR EMBL; AJ300304; CAC20704.1; -; mRNA.  
DR EMBL; AK008187; BAB25519.1; -; mRNA.  
DR EMBL; AK003326; BAB22715.1; -; mRNA.  
DR EMBL; AK013156; BAB28683.1; -; mRNA.  
DR EMBL; AK017692; BAC25526.1; -; mRNA.

DR EMBL; AK032833; BAC28049.1; -; mRNA.  
DR EMBL; BC024357; AAH24357.1; -; mRNA.  
DR HSP5; O88792; IF97.  
DR Ensemble; ENSMUSG000000031990; Mus musculus.  
DR MGI; MGI:1933825; Jam3.  
DR InterPro; IPR003599; Ig.  
DR InterPro; IPR007110; Ig-like.  
DR InterPro; IPR003598; Ig-c2.  
DR InterPro; IPR003596; Ig\_v.  
DR Pfam; PF00047; Ig; 2.  
DR SMART; SM00409; IG; 2.  
DR SMART; SM00408; IGG2; 2.  
DR SMART; SM00406; IGV; 1.  
DR PROSITE; PS00835; IG LIKE; 2.  
KW Glycoprotein; Immunoglobulin domain; Signal; Transmembrane.  
FT SIGNAL 1 29 Potential.  
FT CHAIN 30 310 Junctional adhesion molecule C.  
FT TOPO\_DOM 30 241 Extracellular (Potential).  
FT TRANSMEM 242 262 Potential.  
FT TOPO\_DOM 263 310 Cytoplasmic (Potential).  
FT DOMAIN 35 127 Ig-like V-type.  
FT DOMAIN 139 236 Ig-like C2-type.  
FT CARBOHYD 104 104 N-linked (GLNac. .) (Potential).  
FT DISULFID 192 192 N-linked (GLNac. .) (Potential).  
FT DISULFID 53 115 Potential.  
FT DISULFID 160 219 Potential.  
FT CONFLICT 44 44 H -> Q (in Ref. 3; BAB25519).  
FT CONFLICT 172 172 S -> N (in Ref. 3; BAB25519).  
FT CONFLICT 303 303 R -> K (in Ref. 3; BAB22715).  
FT CONFLICT 306 307 SS -> IA (in Ref. 3; BAB22715).  
SQ SEQUENCE 310 AA; 34838 MW; 4B92BCB51D0A4B0A CRC64;  
  
Query Match 29.8%; Score 479; DB 1; Length 310;  
Best Local Similarity 36.3%; Pred. No. 2.1e-30;  
Matches 110; Conservative 62; Mismatches 109; Indels 22; Gaps 8;  
  
Qy 1 MARRSRRL-----LLLLLVVVALGYKAYGSPKQDVVTAVYQVAILAC-K 51  
Db 3 LSRLRLRYARLPDPFLLLFRGCM-----EAVNLKSNRPVH--EFESVELSCII 55  
  
Qy 52 TPRTKTVSSRLWKKL-GRSVFYVYQTLQGDFFKNRAEMI-DFNIRIKNTRSDAGKYRC 109  
Db 56 TDSQTSDEPTEWKKIQDQGTYYVFDNKIQGLAGRTDVFVKTSRLRWVTRSDSAIYRC 115  
  
Qy 110 EYSAPSEQONLEEDVTLEVLVAPVPSCEVSSALSGTVELRCQDKGNPAPEYTFW 169  
Db 116 EEWALNDR-KEVDEITIELIVQVKPTVPCRIPAAPVPGVTATLQCOESEGYPRPHYSW 174  
  
Qy 170 KDGIRILENPLGQSQTNSSTYTWNTKTGTQFTVSKLDTGEYSCEARNVGVYRCRCPGR 229  
Db 175 RNDVPLETDSRANPRFQNSFFHVNSETGLVFNVAHVHKDDSGQYVCIASNDAGARCEGD 234  
  
Qy 230 MQVDDNLISGIIAAVVVVALVSVGLGVCAQKGYFSKETSFKQKSNSSSKATTMSNV 289  
Db 235 MEVVDNLINAGIIGGVVLVLVAVITWIGICCAVRRGCF---ISSQDGSYKSPGKHGV 291  
  
Qy 290 QWL 292  
Db 292 NYI 294  
  
RESULT 6  
JAM3\_RAT ID JAM3\_RAT STANDARD; PRT; 310 AA.  
AC Q68FQ2;  
DT 10-MAY-2005 (Rel. 47, Created)  
DT 10-MAY-2005 (Rel. 47, Last sequence update)  
DT 10-MAY-2005 (Rel. 47, Last annotation update)  
DE Junctional adhesion molecule C precursor (JAM-C) (Junctional adhesion  
DE molecule 3) (JAM-3).  
GN Name=Jam3;  
OS Rattus norvegicus (Rat).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;









QY 28 GFSAPKDOQVVTAVEYQEAAILACKTPKKTSSRLEWKKLGR--SVSFVYYQOTLQGDfKN 85

```
Db 34 GVTPAP--DPTITVKEGSDPLRCSYTSYDINPRVEMKFNVDQETSFFVYDGLSTASYKD 91
Qy 86 RAEMIDFNIRIKNVTRSDAGKYRCEVSAPSQ---GQNLBEDTIVLEVLVAPVPSCEVP 142
Db 92 RATSYPQGIKLNQVTRKDAGEYSCEVTSTGKVLVG-----EAKIQLVIVAPGTPVAQVP 147
Qy 143 SSALSGTVVELRCODKEGNPAEYTPWFKDGIIRLLENPRLGQSQTNSSTYMTKTGTCTLOFN 202
Db 148 SSARTGSVAELMVCVETQGFPLPTFTWYHN-----NSPMQAKSQNSTYTTIDPNTGVLKFA 201
Qy 203 TVSKLDTGGEYSCEARNVGYRCPCGRKQVDDLNISGIIIAAVVVALVISVCGLGVCVCAQ 262
Db 202 SVGTSDSEYCYCKATNSQGEQSSAIVRMDVNDVNVGGIVAIVVLLILALLGFLWFAY 261
Qy 263 RKGYSKETSFOKNSSSSKATTMSENVQ 290
Db 262 SRGYLDRKGNKKVIYQSPSETRSDKNFQ 289

RESULT 10
Q7SYQ7 XENLA PRELIMINARY; PRT; 300 AA.
AC Q7SYQ7;
DT 01-OCT-2003 (TrEMBLrel. 25, Created)
DT 01-OCT-2003 (TrEMBLrel. 25, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE LOC398627 protein (fragment).
GN Name=LOC398627;
OS Xenopus laevis (African clawed frog).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Mesobatrachia; Pipoidae; Pipidae;
OC Xenopodinae; Xenopus; Xenopus.
OX NCBI_TaxID=8355;
RN [1]
RP TISSUE=Whole;
RC NUCLEOTIDE SEQUENCE.
RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahey J., Helton E., Kettman M., Madan A., Rodriguez S., Sanchez A.,
RA Whitling M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakeley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smalhus D.E.,
RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
RN [2]
RP TISSUE=Embryo;
RC NUCLEOTIDE SEQUENCE.
RX MEDLINE=22341132; PubMed=12454917; DOI=10.1002/dvdy.10174;
RA Klein S.L., Strausberg R.L., Wagner L., Pontius J., Clifton S.W.,
RA Richardson P.;
RT "Genetic and genomic tools for Xenopus research: The NIH Xenopus
RT initiative.";
RL Dev. Dyn. 225:384-391 (2002).
RN [3]
RP NUCLEOTIDE SEQUENCE.
RC TISSUE=Whole;
RA Klein S., Strausberg R.;
RL Submitted (JUN-2003) to the EMBL/GenBank/DBJ databases.
DR EMBL; BC054305; AAH54305.1; -; mRNA.
```

```
DR HSP; O88792; I597.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig_c2.
DR SMART; SM00408; IGG2; 1.
DR PROSITE; PS00835; IG_LIKE; 2.
FT NON TER 1
SQ SEQUENCE 300 AA; 32858 MW; 02BC49DC74E271D4 CRC64;

Query Match 27.4%; Score 439.5; DB 2; Length 300;
Best Local Similarity 35.4%; Pred. No. 3.3e-21;
Matches 95; Conservative 55; Mismatches 101; Indels 17; Gaps 5;

Qy 28 GFSA PKDQVVTAVEQEAILACKTPKKTSSRLWKKLGR--SVSFVYQQTQGGDFKN 85
Db 38 GVTPAP--DPTITVKEGSDPLRCSYTSYDINPRVEMKFNVDQETSFFVYDGLSTASYKD 95
Qy 86 RAEMIDFNIRIKNVTRSDAGKYRCEVSAPSEQ---GQNLBEDTIVLEVLVAPVPSCEVP 142
Db 96 RATSYPQGIKLNQVTRKDAGEYSCEVTSTGKVLVG-----EAKIQLVIVAPGTPVAQVP 151
Qy 143 SSALSGTVVELRCODKEGNPAEYTPWFKDGIIRLLENPRLGQSQTNSSTYMTKTGTCTLOFN 202
Db 152 SSARTGSVAELMVCVETQGFPLPTFTWYHN-----NSPMQAKSQNSTYTTIDPNTGVLKFA 205
Qy 203 TVSKLDTGGEYSCEARNVGYRCPCGRKQVDDLNISGIIIAAVVVALVISVCGLGVCVCAQ 262
Db 206 SVGTSDSEYCYCKATNSQGEQSSAIVRMDVNDVNVGGIVAIVVLLILALLGFLWFAY 265
Qy 263 RKGYSKETSFOKNSSSSKATTMSENVQ 290
Db 266 SRGYLDRKGNKKVIYQSPSETRSDKNFQ 293

RESULT 11
Q7ZWT0 XENLA PRELIMINARY; PRT; 289 AA.
AC Q7ZWT0;
DT 01-JUN-2003 (TrEMBLrel. 24, Created)
DT 01-JUN-2003 (TrEMBLrel. 24, Last sequence update)
DT 01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
DE MGC53721 protein.
OS Xenopus laevis (African clawed frog).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Mesobatrachia; Pipoidae; Pipidae;
OC Xenopodinae; Xenopus; Xenopus.
OX NCBI_TaxID=8355;
RN [1]
RP TISSUE=Embryo;
RC NUCLEOTIDE SEQUENCE.
RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Fahey J., Helton E., Kettman M., Madan A., Rodriguez S., Sanchez A.,
RA Whitling M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Blakeley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smalhus D.E.,
RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
RT "Generation and initial analysis of more than 15,000 full-length human
RT and mouse cDNA sequences.";
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
RN [2]
RP TISSUE=Embryo;
RC NUCLEOTIDE SEQUENCE.
```

Laudet V., Schachter V., Quetier F., Saurin W., Scarpelli C., Wincker P., Lander E.S., Weissenbach J., Roest Crolius H.; "Genome duplication in the teleost fish Tetraodon nigroviridis reveals the early vertebrate proto-karyotype."; Nature 431:946-957(2004).

[2]

NCUCLSTID SEQUENCE.

RG Genoscope; Whitehead Institute Centre for Genome Research; RBL Submitted (FEB-2004) to the EMBL/GenBank/DDJB databases.

CC -!- CAUTION: The sequence shown here is derived from an

EMBL/GenBank/DDJB whole genome shotgun (WGS) entry which is preliminary data.

ENML; CAABE0104781; CAG05809.1; -: Genomic\_DNA.

InterPro; IPR003599; Ig.

InterPro; IPR007110; Ig-like.

InterPro; IPR003598; Ig c2.

InterPro; IPR003596; Ig\_v.

Pfam; PF00047; ig; 1.

SMART; SM00409; IG; 2.

SMART; SM00408; IGC2; 2.

SMART; SM00406; IGV; 1.

PROSITE; PS00835; IG\_LIKE; 2.

Immunoglobulin domain. Repeat.

KW

SQ SEQUENCE 257 AA; 28233 MW; B8318A386D83E7BE CRC64;

Query Match 25.8%; Score 414; DB 2; Length 257;  
Best Local Similarity 36.8%; Pred. No. 3.1e-25;  
Matches 98; Conservative 51; Mismatches 101; Indels 16; Gaps 6

QY 9 LLLLLLYLVALGYHKAYGFSPKDDQQVTAVEYQEAILACK-TPKTKVSRLRWKKLG 67  
| | | | | : | : | : | : | : | : | : | : | : | : | : |  
Db 4 LALLLTLLCPACLSSVTSSSKPR-----VEVHEHTDAVLCEPFRTERDQNPRVEWKKE 59  
| | | | | : | : | : | : | : | : | : | : | : | : | : |  
QY 68 RSYSFYVYQTQLGDPPKNRAEMDFNIRIKNVTRSDAKGYRCEVASPEOQGONLEEDTVT 127  
| | | | | : | : | : | : | : | : | : | : | : | : | : |  
Db 60 KGVVFVFNGLTKKEYAKRAKIDCATITIHAVTKDSGEYRCETA-SEDSVNLCGEAVYT 118  
| | | | | : | : | : | : | : | : | : | : | : | : | : |  
QY 128 LEYLVAAPVPSCVEPSALSCTVVVELRCQDEGNPAPEYTWFGDIRLENPLRGSQSTN 187  
| | | | | : | : | : | : | : | : | : | : | : | : | : |  
Db 119 LANVLVPHPIPCDPVSSSVFVGSGLEHLCKDKLSVPPTARYWKDN-----RALATAD 171  
| | | | | : | : | : | : | : | : | : | : | : | : | : |  
QY 188 SSTMTMKTTLQFNTVKSLDTGEYSCARNVCY-RRCPOKRHQVD--LNISGIIAAV 244  
| : : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |  
Db 172 TPYYIDMKGTKLNSVKTSKDSGMRYRCESNSSVGAQKLVKDYPNLNLTLILISA 231  
| : : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |  
QY 245 VVALVSVTCGLGVCAQRKGYSFSKE 270  
| : : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |  
Db 232 AGFAAFVLIICCIVCVRRRGCKSE 257  
| : : | : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |

RESULT 13

JAM1\_HUMAN

ID \_JAM1\_HUMAN STANDARD; PRT; 299 AA.

AC Q9Y624;

DT 16-OCT-2001 (Rel. 40, Created)

DT 16-OCT-2001 (Rel. 40, Last sequence update)

DT 13-SRP-2005 (Rel. 48, Last annotation update)

DE Junctional adhesion molecule A precursor (JAM-A) (Functional adhesion molecule 1) (JAM) (Platelet adhesion molecule 1) (PAM-1) (Platelet receptor).

DE Names:F1LR; Synonyms=JAM1, JCAM; ORFNames=UNQ264/PRO301;

OS Homo sapiens (Human).

OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

OC Mammalia; Eutheria; Euarchontoglires; Primates; Catarrhini; Homnidae;

OC Homo.

OX NCBI\_TaxID=9606;

XP [1]

NP MEDLINE=59321940; PubMed=10395639;

RX Ozaki H., Ishii K., Horiuchi H., Arai H., Kawamoto T., Okawa K., Ikamatsu A., Kita T.;

RA Iwamatsui H., et al. ;

RT "Combined treatment of TNF-alpha and IFN-gamma causes redistribution of junctional adhesion molecule in human endothelial cells."

RL J. Immunol. 163:553-557(1999).  
RN [2]  
RP NUCLEOTIDE SEQUENCE [MRNA].  
RX PubMed=10753840;  
RA Sobocka M.B., Sobocki T., Banerjee P., Weiss C., Rushbrook J.I.,  
RA Norin A.J., Hartwig J., Salifu M.O., Markell M.S., Babineka A.,  
RA Ehrlich Y.H., Kornecki E.;  
RT Cloning of the human platelet FII receptor: a cell adhesion molecule  
RT member of the immunoglobulin superfamily involved in platelet  
RT aggregation.";  
RL Blood 95:2600-2609(2000).  
RN [3]  
RP NUCLEOTIDE SEQUENCE [MRNA], AND SUBCELLULAR LOCATION.  
RX PubMed=11171323;  
RA Naik U.P., Naik M.U., Eckfeld K., Martin-DeLeon P., Spychala J.;  
RT "Characterization and chromosomal localization of JAM-1, a platelet  
RT receptor for a stimulatory monoclonal antibody.";  
RL J. Cell Sci. 114:539-547(2001).  
RN [4]  
RP NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA].  
RC TISSUE=Brain;  
RX MEDLINE=21154917; PubMed=11230166; DOI=10.1101/gr.154701;  
RA Wiemann S., Weil B., Wellenreuther R., Gassenhuber J., Glassl S.,  
RA Ansgore W., Boecker M., Bloecker H., Bauersache S., Blum H.,  
RA Lauber J., Duesterhoeft A., Beyer A., Koehler K., Strack N.,  
RA Mewes H.-W., Ottenwaelder B., Obermaier B., Tampe J., Heubner D.,  
RA Wambutt R., Korn B., Klein M., Poustka A.;  
RT "Towards a catalog of human genes and proteins: sequencing and  
RT analysis of 500 novel complete protein coding human cDNAs.";  
RL Genome Res. 11:422-435(2001).  
RN [5]  
RP NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA].  
RX MEDLINE=22887296; PubMed=12975309; DOI=10.1101/gr.1293003;  
RA Clark H.F., Gurney A.L., Abaya E., Baker K., Baldwin D.T., Brush J.,  
RA Chen J., Chow B., Chui C., Crowley C., Currell B., Deuel B., Dowd P.,  
RA Eaton D., Foster J.S., Grimaldi C., Gu Q., Hase P.E., Heldens S.,  
RA Huang A., Kim H.S., Klimowski L., Jin Y., Johnson S., Lee J.,  
RA Lewis L., Liao D., Mark M.R., Robbie E., Sanchez C., Schoenfeld J.,  
RA Sehagiri S., Simmons L., Singh J., Smith V., Stinson J., Vagts A.,  
RA Vandlen R.L., Watanabe C., Weand D., Woods K., Xie M.-H.,  
RA Yansura D.G., Yi S., Yu G., Yuan J., Zhang M., Zhang Z., Goddard A.D.,  
RA Wood W.I., Godowski P.J., Gray A.M.;  
RT "The secreted protein discovery initiative (SPDI), a large-scale  
RT effort to identify novel human secreted and transmembrane proteins: a  
RT bioinformatics assessment.";  
RL Genome Res. 13:2265-2270(2003).  
RN [6]  
RP NUCLEOTIDE SEQUENCE [LARGE SCALE MRNA].  
RC TISSUE=Ovary;  
RX MEDLINE=22388257; PubMed=12477932; DOI=10.1073/pnas.242603899;  
RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,  
RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,  
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,  
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Heleth F.,  
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,  
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,  
RA Brownstein M.J., Udwin T.B., Toshiyuki S., Carninci P., Prange C.,  
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,  
RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,  
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,  
RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,  
RA Fahey J., Helton E., Kettelman M., Madan A., Rodriguez S., Sanchez A.,  
RA Whitting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,  
RA Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,  
RA Rodriguez A.C., Grimwood J., Schmitt J., Myers R.M.,  
RA Butterfield Y.S.N., Krzywicki M.I., Skalska U., Smalhus D.B.,  
RA Schnierch A., Schein J.E., Jones S.J.M., Marra M.A.;  
RT "Generation and initial analysis of more than 15,000 full-length human  
RT and mouse cDNA sequences.";  
RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).  
RN [7]  
RP PROTEIN SEQUENCE OF 28-103 AND 123-130, AND N-GLYCOSYLATION.  
RX PubMed=7646439;  
RA Naik U.P., Ehrlich Y.H., Kornecki E.;  
RT "Mechanisms of platelet activation by a stimulatory antibody: cross-  
RT linking of a novel platelet receptor for monoclonal antibody FII with  
RT the FC gamma RI receptor.";  
RL Biochem. J. 310:155-162(1995).  
RN [8]  
RP PROTEIN SEQUENCE OF 28-42.  
RX PubMed=15340161; DOI=10.1110/ps.04682504;  
RA Zhang Z., Henzel W.J.;  
RT "Signal peptide prediction based on analysis of experimentally  
RT verified cleavage sites.";  
RL Protein Sci. 13:2819-2824(2004).  
RN [9]  
RP PROTEIN SEQUENCE OF 28-39.  
RC TISSUE=Platelet;  
RX MEDLINE=22608298; PubMed=12665801; DOI=10.1038/nbt810;  
RA Gevaert K., Goethals M., Martens L., Van Damme J., Staes A.,  
RA Thomas G.R., Vandekerckhove J.;  
RT "Exploring proteomes and analyzing protein processing by mass  
RT spectrometric identification of sorted N-terminal peptides.";  
RL Nat. Biotechnol. 21:566-569(2003).  
RN [10]  
RP INTERACTION WITH MPDZ.  
RX PubMed=11489913; DOI=10.1093/jcb.200103047;  
RA Itoh M., Sasaki H., Furuse M., Ozaki H., Kita T., Tsukita S.;  
RT "Functional adhesion molecule (JAM) binds to PAR-3: a possible  
RT mechanism for the recruitment of PAR-3 to tight junctions.";  
RL J. Cell Biol. 154:491-497(2001).  
RN [11]  
RP REVIEW, AND NOMENCLATURE.  
RX PubMed=12810109; DOI=10.1016/S1471-4906(03)00117-0;  
RA Muller W.A.;  
RT "Leukocyte-endothelial-cell interactions in leukocyte transmigration  
RT and the inflammatory response.";  
RL Trends Immunol. 24:327-334(2003).  
RN CC -1- FUNCTION: Seems to play a role in epithelial tight junction  
CC formation. Appears early in primordial forms of cell junctions and  
CC recruits PAR3. The association of the PAR6-PAR3 complex may  
CC prevent the interaction of PAR3 with JAM1, thereby preventing  
CC tight junction assembly (By similarity). Plays a role in  
CC regulating monocyte transmigration involved in integrity of  
CC epithelial barrier. Involved in platelet activation.  
CC CC -1- SUBUNIT: Interacts with the first PDZ domain of PAR3. The  
CC association between PAR3 and PAR68 probably disrupts this  
CC interaction (By similarity). Interacts with the ninth PDZ domain  
CC of MPDZ.  
CC CC -1- SUBCELLULAR LOCATION: Type I membrane protein (Potential).  
CC Localized at tight junctions of both epithelial and endothelial  
CC cells.  
CC CC -1- PTM: N-Glycosylated.  
CC CC -1- SIMILARITY: Belongs to the immunoglobulin superfamily.  
CC CC -1- SIMILARITY: Contains 2 Ig-like V-type (immunoglobulin-like)  
CC domains.  
RN CC -----  
CC This Swiss-Prot entry is copyright. It is produced through a collaboration  
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -  
CC the European Bioinformatics Institute. There are no restrictions on its  
CC use as long as its content is in no way modified and this statement is not  
CC removed.  
RN CC -----  
CC EMBL: AF111713; AAD42050.1; -; mRNA.  
CC EMBL: AF070907; AAF22829.1; -; mRNA.  
CC EMBL: AF172398; AAD48877.1; -; mRNA.  
CC EMBL: AL136649; CAB66584.1; -; mRNA.  
CC EMBL: AY358896; AAQ89255.1; -; mRNA.  
CC EMBL: BC001533; AAH01533.1; -; mRNA.  
CC PIR: A59406; S56749.  
CC PDB: 1NB0; X-ray; A/B-27-233.  
CC Ensembl: ENSG00000158769; Homo sapiens.  
CC HGNC: HGNC:14685; F11R.  
CC MIM: 605721; -.  
CC GO: GO:0005911; C:intercellular junction; TAS.  
CC GO: GO:0006954; P:inflammatory response; TAS.  
CC GO: GO:0006954; P:inflammatory response; TAS.

RA	Grunewald I., Pankow H., Hewelt A., Scherneck S., Bauer D.,	
RA	Hoehle M.R.;	
RT	"Identification and characterization of KAT, a novel gene	
RT	preferentially expressed in several human cancer cell lines.";	
RL	Biol. Chem. 384:763-775(2003).	
RN	[4]	
RN	NUCLEOTIDE SEQUENCE.	
RC	TISSUE=Placenta;	
RA	Otsuki T., Ota T., Nishikawa T., Hayashi K., Suzuki Y., Yamamoto J.,	
RA	Wakamatsu A., Kimura K., Sakamoto K., Hatano N., Kawai Y., Ishii S.,	
RA	Saito K., Kojima S., Sugiyama T., Ono T., Okano K., Yoshikawa Y.,	
RA	Aotsuka S., Sasaki N., Hattori A., Okumura K., Nagai K., Sugano S.,	
RA	Isogai T.;	
RT	"Signal Sequence and Keyword Trap in silico for Selection of Full-	
RT	Length Human cDNAs Encoding Secretion or Membrane Proteins from Oligo-	
RT	Capped cDNA Libraries.";	
RL	DNA Res. 12:117-126(2005).	
RN	[5]	
RN	NUCLEOTIDE SEQUENCE.	
RA	Kalnine N., Chen X., Rolfs A., Halleck A., Hines L., Eisenstein S.,	
RA	Koundinya M., Raphael J., Moreira D., Kelley T., LaBaer J., Lin Y.,	
RA	Phelan M., Farmer A.;	
RT	"Cloning of human full-length cDNAs in BD Creator(TM) System Donor	
RT	vector.";	
RL	Submitted (OCT-2004) to the EMBL/GenBank/DBJ databases.	
RN	[6]	
RN	NUCLEOTIDE SEQUENCE.	
RA	Harrison E.;	
RL	Submitted (MAY-2005) to the EMBL/GenBank/DBJ databases.	
DR	EMBL; CR533512; CAG38543.1; -; mRNA.	
DR	EMBL; AF191495; AAG28379.1; -; mRNA.	
DR	EMBL; AF490407; AAO84556.1; -; Genomic_DNA.	
DR	EMBL; BT020103; AAV38906.1; -; mRNA.	
DR	EMBL; AL591806; CAIL15365.1; -; Genomic_DNA.	
DR	EMBL; AK075152; BAC11436.1; -; mRNA.	
DR	SVR; Q6R1B4; 25-233.	
DR	Ensembl; ENSG00000158769; Homo sapiens.	
DR	GO; GO:0004872; Fireceptor activity; IEA.	
DR	InterPro; IPR003599; IG.	
DR	InterPro; IPR007110; IG-like.	
DR	InterPro; IPR003598; IG_c2.	
DR	InterPro; IPR003596; IG_v.	
DR	Pfam; PF00047; IG; 1.	
DR	SMART; SM00409; IG; 2.	
DR	SMART; SM00408; IGC2; 2.	
DR	SMART; SM00406; IGV; 1.	
DR	PROSITE; PS50835; IG_LIKE; 2.	
DR	Receptor.	
KW		
SK	SEQUENCE 299 AA; 32583 MW; D95DE2FEA23D2851 CRC64;	
	Query Match 25.2%; Score 404; DB 2; Length 299;	
	Best Local Similarity 35.2%; Pred. No. 2.4e-24;	
	Matches 102; Conservative 46; Mismatches 126; Indels 16; Gaps 7;	
QY	2 ARRSRRHRLLLRLRYLV--VALGYHKYAGFSAPKQQQVTVAVRYQBAILACKTPKKTVS 59	
Db	5 AQVERKLLGLFILAILLCSALG-----SVTVHSSEPEVRIPENNPVKLSA VSGFS-SP 58	
QY	60 RLEWK-KLGRSVFVYYQOTLOGDFKNRAEMIDFNIRIKNVTSDAGKRCVSAPEEQ 118	
Db	59 RVEMKPDQDGTTRLVCYNNKKTASYSDRVTFLPTGITFKSVTREDTGTVTCMVS--EEGG 116	
QY	119 ONLEEDTVTVLEIVAPVAPSPCEVPSSALSGTVVLELCQDEKGNPAPETWFKDGIRLEN 178	
Db	117 NSYGEVKVLLI VLVPSKTVNIPSSATIGNRAVLTCSSQDGPSPSEYTWFKDGI VNP 176	
QY	179 PRIGSQSTNSSTYMTNKTGLQFNVTYSKLDTGGEYSCEARNSVGYYRRCPGK-RMQVDDLNI 237	
Db	177 PKSTRAFSNSSVLYNPFTTGLVFDPLSLASDTGEYSCEARNGYGTPTNSAVRMEAVERNV 236	
QY	238 SGLIAAVVVVALVISVCGLGVCYQARKGYFSKETSFKQNSGSKATMSE 287	
Db	237 GVIVAAVLVTLILGLVFGIWFAYSRGHFDR----TKKGTSSKKVIYSO 282	

```

RESULT 15
JAM1_BOVIN
ID JAM1_BOVIN STANDARD; PRT; 298 AA.
AC Q9XT56;
DT 16-OCT-2001 (Rel. 40, Created)
DT 16-OCT-2001 (Rel. 40, Last sequence update)
DT 13-SEP-2005 (Rel. 48, Last annotation update)
DE Junctional adhesion molecule A precursor (JAM-A) (Junctional adhesion
DE molecule 1) (JAM).
GN Name=F11R; Synonyms=JAM1;
OS Bos taurus (Bovine).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Laurasiatheria; Cetartodactylia; Ruminantia;
OC Pecora; Bovidae; Bovinae; Bos.
OX NCBI_TaxID=9913;
RN [1]
RP NUCLEOTIDE SEQUENCE.
RX MEDLINE=99323940; PubMed=10395639;
RA Ozaki H., Ishii K., Horiuchi H., Arai H., Kawamoto T., Okawa K.,
RA Iwamatsu A., Kita T.;
RT "Combined treatment of TNF-alpha and IFN-gamma causes redistribution
RT of junctional adhesion molecule in human endothelial cells.";
RL J. Immunol. 163:553-557(1999).
CC -!- FUNCTION: Seems to plays a role in epithelial tight junction
CC formation. Appears early in primordial forms of cell junctions and
CC recruits PARD3. The association of the PARD6-PARD3 complex may
CC prevent the interaction of PARD3 with JAM1, thereby preventing
CC tight junction assembly (By similarity). Plays a role in
CC regulating monocyte transmigration involved in integrity of
CC epithelial barrier. Involved in platelet activation.
CC -!- SUBUNIT: Interacts with the first PDZ domain of PARD3. The
CC association between PARD3 and PARD6 probably disrupts this
CC interaction. Interacts with the ninth PDZ domain of MPDZ (By
CC similarity).
CC -!- SUBCELLULAR LOCATION: Type I membrane protein (Potential).
CC Localized at tight junctions of both epithelial and endothelial
CC cells (By similarity).
CC -!- SIMILARITY: Belongs to the immunoglobulin superfamily.
CC -!- SIMILARITY: Contains 2 Ig-like V-type (immunoglobulin-like)
CC domains.
CC -----
CC This Swiss-Prot entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use as long as its content is in no way modified and this statement is not
CC removed.
CC -----
DR EMBL; AF111714; AAD42051.1; -; mRNA.
DR HSP; Q9Y624; 1NBQ.
DR SMR; Q9XT56; 24-232.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig_c2.
DR Pfam; PF00047; ig; 1.
DR SMART; SM00408; IGC2; 1.
DR PROSITE; PS00835; IG_LIKE; 2.
KW Glycoprotein; Immunoglobulin domain; Repeat; Signal; Tight junction;
KW Transmembrane.
FT SIGNAL 1 24 Potential.
FT CHAIN 25 298 Junctional adhesion molecule A.
FT TOPO_DOM 25 237 Extracellular (Potential).
FT TRANSMEM 238 258 Potential.
FT TOPO_DOM 259 298 Cytoplasmic (Potential).
FT DOMAIN 28 124 Ig-like V-type 1.
FT DOMAIN 134 227 Ig-like V-type 2.
FT CARBOHYD 184 184 N-linked (GlcNAc...) (Potential).
FT DISULFID 49 108 Potential.
FT DISULFID 152 211 Potential.
SQ SEQUENCE 298 AA; 32456 MW; 714FE1C1714769A2 CRC64;
Query Match 25.1%; Score 402.5; DB 1; Length 298;
Best Local Similarity 36.2%; Pred. No. 3.2e-24;

```

```

Matches 104; Conservative 42; Mismatches 116; Indels 25; Gaps 9;
Qy 9 LLL---LLRYLVVALGYHKAYGFSAPKDOQVTVAVEYQEAAILACKTPKKTVSRLWK- 64
||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||
Db 12 LLLFTSMILCSLALGRGAVQTY-----EPVVRVPENNPAPKLSGSGFS-SPRVEMKF 63
||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||
Qy 65 KLGRSVSFVYQQTLOGDFKNRAEMIDFNIRIKNVTRSDAGKYRCEVSAPSEQQNLEED 124
||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||
Db 64 THGDIRGLVCYNNKITASYENRVTFSDTGITFHSVTRKDTGMWTCWVS--DEGNTYGEV 121
||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||
Qy 125 TVTLEVLVAPVPSCEVPSSALSSTVVELRCQDKGNPAPETWFKDGIIRLLENPRLSGQ 184
||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||
Db 122 TVQLIVLVPSKPTINVPSSVTIGTRAVLTCSERDGSPSEYKWKDGVEMPLEPKNRA 181
||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||
Qy 185 STNSSYTMNTKTGTLOQNTVSKLDTGEYSCEARNVGYRRCPGK-----RMQVDDLNIISGI 240
||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||
Db 182 FSNSSYTLNQTGELIFDPVSASDGTGFTCAQNN--GY-ASPVKSDTVHMDAVELNNGGI 238
||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||
Qy 241 IAAVVVVALVISVGLGVCYAQRKGYSKETSFKNSNSSKATTMSE 287
||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||
Db 239 VAAVFVTLILGALIFGINFAYSRGYFDR-----AKGTSNKKVIYSQ 281
||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :||| :|||

```

Search completed: December 6, 2005, 13:31:20

Job time : 233 secs





```

; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/230899
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/282114
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/283113
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/285654
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/285655
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/300095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/309111
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/309999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 64
; LENGTH: 312
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-909-320-64

```

Query Match	100.0%	Score 1605;	DB 3;	Length 312;
Best Local Similarity	100.0%	Pred. No. 3.6e-136;		
Matches 312; Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;	
Qy	1	MARRSRRLRLLLRLYLVALGYHKA	GFSA	PKDQOVVTAVEYQEAILLACKTPKKTVSSR 60
Db	1	MARRSRRLRLLLRLYLVALGYHKA	GFSA	PKDQOVVTAVEYQEAILLACKTPKKTVSSR 60
Qy	61	LEWKKLGRSVSVFYQOTLQGD	PFKNRAEMIDFNIRIKNVTRSDAGKYRCEVSAPSEQON 120	
Db	61	LEWKKLGRSVSVFYQOTLQGD	PFKNRAEMIDFNIRIKNVTRSDAGKYRCEVSAPSEQON 120	
Qy	121	LEEDTVTVLEVLVAPAPVCEVP	SALSGTVVVELRCQDKEGNAPPEYTWFKDGI	RLLNPR 180
Db	121	LEEDTVTVLEVLVAPAPVCEVP	SALSGTVVVELRCQDKEGNAPPEYTWFKDGI	RLLNPR 180
Qy	181	LGQSQTNSSTYTMNTKTG	TFQNTVSKLDTGEYSCEARNSVGYRCPGKRMQVDDLNI	SGI 240
Db	181	LGQSQTNSSTYTMNTKTG	TFQNTVSKLDTGEYSCEARNSVGYRCPGKRMQVDDLNI	SGI 240
Qy	241	IAAAVVVVALVISVCGLGVCYAQR	KGYFSKETSFQKSNSSSKATTMSENVQMLTPVIPALW 300	
Db	241	IAAAVVVVALVISVCGLGVCYAQR	KGYFSKETSFQKSNSSSKATTMSENVQMLTPVIPALW 300	
Qy	301	KAAAGSGRGOEF		312
Db	301	KAAAGSGRGOEF		312

RESULT 2  
US - 909-088B-64  
Sequence 64, Application US/09909088B  
Patent No. US20020146709A1  
GENERAL INFORMATION:  
APPLICANT: Genentech, Inc.  
APPLICANT: Ashkenazi, Avi  
APPLICANT: Botstein, David  
APPLICANT: Desnovers, Luc  
APPLICANT: Eaton, Dan L.  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Flisaroff, Ellen  
APPLICANT: Fong, Sherman  
APPLICANT: Gao, Wei-Qiang  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerritsen, Mary E.  
APPLICANT: Goddard, A.  
APPLICANT: Godowski, Paul J.

```

1  APPLICANT: Grimaldi, Christopher J.
2  APPLICANT: Gurney, Austin L.
3  APPLICANT: Hillan, Kenneth, J.
4  APPLICANT: Kljavin, Ivar J.
5  APPLICANT: Mather, Jennie P.
6  APPLICANT: Pan, James
7  APPLICANT: Paoni, Nicholas F.
8  APPLICANT: Roy, Margaret Ann
9  APPLICANT: Stewart, Timothy A.
10 APPLICANT: Tumas, Daniel
11 APPLICANT: Williams, P. Mickey
12 APPLICANT: Wood, William, I.
13 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleo
14 TITLE OF INVENTION: Acids Encoding the Same
15 FILE REFERENCE: 10466-14
16 CURRENT APPLICATION NUMBER: US/09/909,088B
17 CURRENT FILING DATE: 2001-07-18
18 PRIOR APPLICATION NUMBER: PCT/US00/04414
19 PRIOR FILING DATE: 2000-02-22
20 PRIOR APPLICATION NUMBER: US 60/143,048
21 PRIOR FILING DATE: 1999-07-07
22 PRIOR APPLICATION NUMBER: US 60/145,698
23 PRIOR FILING DATE: 1999-07-26
24 PRIOR APPLICATION NUMBER: US 60/146,222
25 PRIOR FILING DATE: 1999-07-28
26 PRIOR APPLICATION NUMBER: PCT/US99/20594
27 PRIOR FILING DATE: 1999-09-08
28 PRIOR APPLICATION NUMBER: PCT/US99/20944
29 PRIOR FILING DATE: 1999-09-13
30 PRIOR APPLICATION NUMBER: PCT/US99/21090
31 PRIOR FILING DATE: 1999-09-15
32 PRIOR APPLICATION NUMBER: PCT/US99/21547
33 PRIOR FILING DATE: 1999-09-15
34 PRIOR APPLICATION NUMBER: PCT/US99/23089
35 PRIOR FILING DATE: 1999-10-05
36 PRIOR APPLICATION NUMBER: PCT/US99/28214
37 PRIOR FILING DATE: 1999-11-29
38 PRIOR APPLICATION NUMBER: PCT/US99/28313
39 PRIOR FILING DATE: 1999-11-30
40 PRIOR APPLICATION NUMBER: PCT/US99/28564
41 PRIOR FILING DATE: 1999-12-02
42 PRIOR APPLICATION NUMBER: PCT/US99/28565
43 PRIOR FILING DATE: 1999-12-02
44 PRIOR APPLICATION NUMBER: PCT/US99/30095
45 PRIOR FILING DATE: 1999-12-16
46 PRIOR APPLICATION NUMBER: PCT/US99/30911
47 PRIOR FILING DATE: 1999-12-20
48 PRIOR APPLICATION NUMBER: PCT/US99/30999
49 PRIOR FILING DATE: 1999-12-20
50 PRIOR APPLICATION NUMBER: PCT/US00/00219
51 PRIOR FILING DATE: 2000-01-05
52 NUMBER OF SEQ ID NOS: 423
53 SEQ ID NO 64
54 LENGTH: 312
55 TYPE: PRT
56 ORGANISM: Homo sapiens
57 US-09-909-088B-64

```



[illegible]

RESULT 3

US-09-905-291A-64

Sequence 64, Application US/09905291A

Patent No. US20020160374A1

GENERAL INFORMATION:

APPLICANT: Genentech, Inc.

APPLICANT: Ashkenazi, Avi

APPLICANT: Botstein, David

APPLICANT: Desnoyers, Luc

APPLICANT: Eaton, Dan L.

APPLICANT: Ferrara Napoleone

APPLICANT: Flvaroff, Ellen

APPLICANT: Fong, Sherman

APPLICANT: Gao, Wei-Qiang

APPLICANT: Gerber, Hanspeter

APPLICANT: Gerritsen, Mary E.

APPLICANT: Goddard, A.

APPLICANT: Godowski, Paul J.

APPLICANT: Grimaldi, Christopher J.

APPLICANT: Gurney, Austin L.

APPLICANT: Hillan, Kenneth, J.

APPLICANT: Kljavin, Ivar J.

APPLICANT: Mather, Jennie P.

APPLICANT: Pan, James

APPLICANT: Paoni, Nicholas F.

APPLICANT: Roy, Margaret Ann

APPLICANT: Stewart, Timothy A.

APPLICANT: Tumas, Daniel

APPLICANT: Williams, P. Mickey

APPLICANT: Wood, William, I.

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic

TITLE OF INVENTION: Acids Encoding the Same

FILE REFERENCE: 10466-14

CURRENT APPLICATION NUMBER: US/09/905,291A

CURRENT FILING DATE: 2001-07-12

PRIOR APPLICATION NUMBER: PCT/US00/04414

PRIOR FILING DATE: 2000-02-22

PRIOR APPLICATION NUMBER: US 60/143,048

PRIOR FILING DATE: 1999-07-07

PRIOR APPLICATION NUMBER: US 60/145,698

PRIOR FILING DATE: 1999-07-26

PRIOR APPLICATION NUMBER: US 60/146,222

PRIOR FILING DATE: 1999-07-28

PRIOR APPLICATION NUMBER: PCT/US99/20594

PRIOR FILING DATE: 1999-09-08

PRIOR APPLICATION NUMBER: PCT/US99/20944

PRIOR FILING DATE: 1999-09-13

PRIOR APPLICATION NUMBER: PCT/US99/21090

PRIOR FILING DATE: 1999-09-15

PRIOR APPLICATION NUMBER: PCT/US99/21547

PRIOR FILING DATE: 1999-09-15

PRIOR APPLICATION NUMBER: PCT/US99/23089

PRIOR FILING DATE: 1999-10-05

PRIOR APPLICATION NUMBER: PCT/US99/28214

PRIOR FILING DATE: 1999-11-29

PRIOR APPLICATION NUMBER: PCT/US99/28313

PRIOR FILING DATE: 1999-11-30

PRIOR APPLICATION NUMBER: PCT/US99/28564

PRIOR FILING DATE: 1999-12-02

Query Match	100.0%	Score 1605;	DB 3;	Length 312;
Best Local Similarity	100.0%	Pred. No. 3.6e-136;	Mismatches 0;	Indels 0; Gaps 0;
Matches 312;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
Qy 1	MARRSRHRLLLRLRYLVALGYHKYAGFSAPKDDQVWTAVEYQEAAILACKTPKKTVSSR 60			
Db 1	MARRSRHRLLLRLRYLVALGYHKYAGFSAPKDDQVWTAVEYQEAAILACKTPKKTVSSR 60			
Qy 61	LEWKLGSRVSFVYYQOTLQDFFKNRAEMIDFNIRIKNVTNRSDAGKYRCEVSAPSEGGQN 120			
Db 61	LEWKLGSRVSFVYYQOTLQDFFKNRAEMIDFNIRIKNVTNRSDAGKYRCEVSAPSEGGQN 120			
Qy 121	LEEDTTVLEVLVAPVPSCVPSVSSALSGTIVELRCDKGNPAPBYTFPKDGIRLLENPR 180			
Db 121	LEEDTTVLEVLVAPVPSCVPSVSSALSGTIVELRCDKGNPAPBYTFPKDGIRLLENPR 180			
Qy 181	LGQSQTNSSTYTNKTKGTQFNTVSKLDTGEYSCEARNVGVYRRCQKRMQVDDLNISGI 240			
Db 181	LGQSQTNSSTYTNKTKGTQFNTVSKLDTGEYSCEARNVGVYRRCQKRMQVDDLNISGI 240			
Qy 241	IAAVVVVALVISYCGLGVCYAQRKGYSKETSFKQSNSSSKATMTSENQWMLTPVIPALW 300			
Db 241	IAAVVVVALVISYCGLGVCYAQRKGYSKETSFKQSNSSSKATMTSENQWMLTPVIPALW 300			
Qy 301	KAAAGSGRGOEF 312			
Db 301	KAAAGSGRGOEF 312			

RESULT 4

US-09-953-499-9

Sequence 9, Application US/09953499

Publication No. US20020182206A1

GENERAL INFORMATION:

APPLICANT: Genentech, Inc.

APPLICANT: Ashkenazi, Avi J.

APPLICANT: Fong, Sherman

APPLICANT: Goddard, Audrey

APPLICANT: Gurney, Austen L.

APPLICANT: Napier, Mary A.

APPLICANT: Tumas, Daniel

APPLICANT: Wood, William I.

TITLE OF INVENTION: COMPOUNDS, COMPOSITIONS AND METHODS FOR THE TREATMENT

OF DISEASES CHARACTERIZED BY A33- RELATED ANTIGENS

FILE REFERENCE: P1216R1(US)

CURRENT APPLICATION NUMBER: US/09/953,499

CURRENT FILING DATE: 2001-09-14

PRIOR APPLICATION NUMBER: US/09/254,465

PRIOR FILING DATE: 1999-03-05

PRIOR APPLICATION NUMBER: PCT/US98/24855

PRIOR FILING DATE: 1998-11-20

PRIOR APPLICATION NUMBER: US 60/066,364

PRIOR FILING DATE: 1997-11-21

PRIOR APPLICATION NUMBER: US 60/078,936

PRIOR FILING DATE: 1998-03-20

PRIOR APPLICATION NUMBER: PCT/US98/19437

US-09-905-291A-64

ORGANISM: Homo sapiens

TYPE: PRT

LENGTH: 312

SEQ ID NO 64

NUMBER OF SEQ ID NOS: 423

PRIOR APPLICATION NUMBER: PCT/US99/28565

PRIOR FILING DATE: 1999-12-02

PRIOR APPLICATION NUMBER: PCT/US99/30095

PRIOR FILING DATE: 1999-12-16

PRIOR APPLICATION NUMBER: PCT/US99/30911

PRIOR FILING DATE: 1999-12-20

PRIOR APPLICATION NUMBER: PCT/US99/30999

PRIOR FILING DATE: 1999-12-20

PRIOR APPLICATION NUMBER: PCT/US00/00219

PRIOR FILING DATE: 2000-01-05

NUMBER OF SEQ ID NOS: 423

```

; PRIOR FILING DATE: 1998-09-17
; NUMBER OF SEQ ID NOS: 30
; SEQ ID NO 9
; LENGTH: 312
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-953-499-9

Query Match      100.0%; Score 1605; DB 3; Length 312;
Best Local Similarity 100.0%; Pred. No. 3.6e-136;
Matches 312; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MARRSRHLLLLRLYLVALGYHKAYGFSAPKQDQVVTAVYQEAAILACKTPKKTVSSR 60
Db 1 MARRSRHLLLLRLYLVALGYHKAYGFSAPKQDQVVTAVYQEAAILACKTPKKTVSSR 60

Qy 61 LEWKLGSRVSFVYYQOTLQDGFKNRAEMIDFNIRIKNVTRSDAGKYRCEVSAPSEOGQN 120
Db 61 LEWKLGSRVSFVYYQOTLQDGFKNRAEMIDFNIRIKNVTRSDAGKYRCEVSAPSEOGQN 120

Qy 121 LEEDTVTLVLVAPVSPCEVPSSALSGTVVLELRCQDKEGHPAPEYTWFKDGIRLLENPR 180
Db 121 LEEDTVTLVLVAPVSPCEVPSSALSGTVVLELRCQDKEGHPAPEYTWFKDGIRLLENPR 180

Qy 181 LGSQSTNSSYTMNTKTGTTLQFNTVSKLDTGEYSCEARNSVGYRRCPGKRMQVDDLNISGI 240
Db 181 LGSQSTNSSYTMNTKTGTTLQFNTVSKLDTGEYSCEARNSVGYRRCPGKRMQVDDLNISGI 240

Qy 241 IAAVVVALVTSVCGLGVCYAKRGYFSKETSFKQSNSSSKATTMSENVQWLTPTVIPALW 300
Db 241 IAAVVVALVTSVCGLGVCYAKRGYFSKETSFKQSNSSSKATTMSENVQWLTPTVIPALW 300

Qy 301 KAAAGGSRGQEF 312
Db 301 KAAAGGSRGQEF 312

RESULT 5
US-09-902-853-64
; Sequence 64, Application US/09902853
; Publication No. US20020192659A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/902,853
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: US/09/665,350

; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 64
; LENGTH: 312
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-902-853-64

Query Match      100.0%; Score 1605; DB 3; Length 312;
Best Local Similarity 100.0%; Pred. No. 3.6e-136;
Matches 312; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MARRSRHLLLLRLYLVALGYHKAYGFSAPKQDQVVTAVYQEAAILACKTPKKTVSSR 60
Db 1 MARRSRHLLLLRLYLVALGYHKAYGFSAPKQDQVVTAVYQEAAILACKTPKKTVSSR 60

Qy 61 LEWKLGSRVSFVYYQOTLQDGFKNRAEMIDFNIRIKNVTRSDAGKYRCEVSAPSEOGQN 120
Db 61 LEWKLGSRVSFVYYQOTLQDGFKNRAEMIDFNIRIKNVTRSDAGKYRCEVSAPSEOGQN 120

Qy 121 LEEDTVTLVLVAPVSPCEVPSSALSGTVVLELRCQDKEGHPAPEYTWFKDGIRLLENPR 180
Db 121 LEEDTVTLVLVAPVSPCEVPSSALSGTVVLELRCQDKEGHPAPEYTWFKDGIRLLENPR 180

Qy 181 LGSQSTNSSYTMNTKTGTTLQFNTVSKLDTGEYSCEARNSVGYRRCPGKRMQVDDLNISGI 240
Db 181 LGSQSTNSSYTMNTKTGTTLQFNTVSKLDTGEYSCEARNSVGYRRCPGKRMQVDDLNISGI 240

Qy 241 IAAVVVALVTSVCGLGVCYAKRGYFSKETSFKQSNSSSKATTMSENVQWLTPTVIPALW 300
Db 241 IAAVVVALVTSVCGLGVCYAKRGYFSKETSFKQSNSSSKATTMSENVQWLTPTVIPALW 300

Qy 301 KAAAGGSRGQEF 312
Db 301 KAAAGGSRGQEF 312

RESULT 6
US-09-907-824-64
; Sequence 64, Application US/09907824
; Publication No. US20020197671A1
```

```

; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,824
; CURRENT FILING DATE: 2001-07-17
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 64
; LENGTH: 312
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-907-824-64

```

```

Query Match      100.0%; Score 1605; DB 3; Length 312;
Best Local Similarity 100.0%; Pred. No. 3.6e-136;
Matches 312; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MARRSRHLLLLLLRYLVVALGYHAYGFSAPKQOQVVTAVEYQBAIIACKTPKKTVSSR 60
   |||||
Db 1 MARRSRHLLLLLLRYLVVALGYHAYGFSAPKQOQVVTAVEYQBAIIACKTPKKTVSSR 60
   |||||

QY 61 LEWKKLGRSVSVVYQOQTLOGDFKNRAEMIDFNIRIKNVTNRSDAGKYCEVSAPSEQGN 120
   |||||
Db 61 LEWKKLGRSVSVVYQOQTLOGDFKNRAEMIDFNIRIKNVTNRSDAGKYCEVSAPSEQGN 120
   |||||

QY 121 LEEDTVTLVLVAPVAPSPCEVPSSALSCTVVELRCQDKEGNPAPRYTWFKDGIRLLENPR 180
   |||||
Db 121 LEEDTVTLVLVAPVAPSPCEVPSSALSCTVVELRCQDKEGNPAPRYTWFKDGIRLLENPR 180
   |||||

QY 181 LGSQSTNSSTYNTTKTGTLOFNTVSKLDTGEYSCEARNISVYRRCPCGKRMQVDDLNISGI 240
   |||||
Db 181 LGSQSTNSSTYNTTKTGTLOFNTVSKLDTGEYSCEARNISVYRRCPCGKRMQVDDLNISGI 240
   |||||

QY 241 IAAVVVVVALVISVCGLVGYAQRKGYSKETSFOKSNSSSKATTMSNVQMLTPVIPALW 300
   |||||
Db 241 IAAVVVVVALVISVCGLVGYAQRKGYSKETSFOKSNSSSKATTMSNVQMLTPVIPALW 300
   |||||

QY 301 KAAAGSGRGQEF 312
   |||||
Db 301 KAAAGSGRGQEF 312
   |||||

RESULT 7
US-09-907-841-64
; Sequence 64, Application US/09907841
; Publication No. US20020198366A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/907,841
; CURRENT FILING DATE: 2001-11-20
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28

```



QY 241 IAAVVVVVALVISVCGLGVCYAQRKGYSKETSFKSNSSSKATTMSENVQMLTPVIPALW 300  
Db IAAVVVVVALVISVCGLGVCYAQRKGYSKETSFKSNSSSKATTMSENVQMLTPVIPALW 300  
QY 301 KAAAGSGRQGEF 312  
Db KAAAGSGRQGEF 312  
RESULT 9  
US-09-903-640-64  
; Sequence 64, Application US/09903640  
; Publication No. US20030017463A1  
; GENERAL INFORMATION:  
; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, A.  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, Christopher J.  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth, J.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Mather, Jennie P.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William, I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; TITLE OF INVENTION: Acids Encoding the Same  
; FILE REFERENCE: 10466-14  
; CURRENT APPLICATION NUMBER: US/09/903,640  
; CURRENT FILING DATE: 2001-07-11  
; PRIOR APPLICATION NUMBER: 09/665,350  
; PRIOR FILING DATE: 2000-09-18  
; NUMBER OF SEQ ID NOS: 423  
; SEQ ID NO 64  
; LENGTH: 312  
; TYPE: PRT  
; ORGANISM: Homo Sapien  
US-09-903-640-64  
Query Match 100.0%; Score 1605; DB 3; Length 312;  
Best Local Similarity 100.0%; Pred. No. 3.6e-136;  
Matches 312; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 MARRSRHLLLLLLLYLVALGYHKAYGFSAPKDOQVTVAVEYQBAIIACKTPKKTVSSR 60  
Db 1 MARRSRHLLLLLLLYLVALGYHKAYGFSAPKDOQVTVAVEYQBAIIACKTPKKTVSSR 60  
QY 61 LEWKILGRSVSVVYQOTLQDGFKNRAEMIDFNIRIKNVTSDACKYRCEVSAPSEQON 120  
Db 61 LEWKILGRSVSVVYQOTLQDGFKNRAEMIDFNIRIKNVTSDACKYRCEVSAPSEQON 120  
QY 121 LEEDVTTLVLVAPVPCEVPSSALSGTVVVELRCQDKEGNPAPETWFKDGIIRLENPR 180  
Db 121 LEEDVTTLVLVAPVPCEVPSSALSGTVVVELRCQDKEGNPAPETWFKDGIIRLENPR 180  
QY 181 LGSQSTNSSTYNTKGTQLQNTVSKLDTGBYSCEARNVSVYRRCPCGKRMQVDDLINISGI 240  
Db 181 LGSQSTNSSTYNTKGTQLQNTVSKLDTGBYSCEARNVSVYRRCPCGKRMQVDDLINISGI 240

QY 241 IAAVVVVVALVISVCGLGVCYAQRKGYSKETSFKSNSSSKATTMSENVQMLTPVIPALW 300  
Db IAAVVVVVALVISVCGLGVCYAQRKGYSKETSFKSNSSSKATTMSENVQMLTPVIPALW 300  
QY 301 KAAAGSGRQGEF 312  
Db KAAAGSGRQGEF 312  
RESULT 10  
US-09-908-093-64  
; Sequence 64, Application US/09908093  
; Publication No. US20030017498A1  
; GENERAL INFORMATION:  
; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, A.  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, Christopher J.  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth, J.  
; APPLICANT: Kljavin, Ivar J.  
; APPLICANT: Mather, Jennie P.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William, I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; TITLE OF INVENTION: Acids Encoding the Same  
; FILE REFERENCE: 10466-14  
; CURRENT APPLICATION NUMBER: US/09/908,093  
; CURRENT FILING DATE: 2001-07-17  
; PRIOR APPLICATION NUMBER: 09/665,350  
; PRIOR FILING DATE: 2000-09-18  
; PRIOR APPLICATION NUMBER: PCT/US00/04414  
; PRIOR FILING DATE: 2000-02-22  
; PRIOR APPLICATION NUMBER: US 60/143,048  
; PRIOR FILING DATE: 1999-07-07  
; PRIOR APPLICATION NUMBER: US 60/145,698  
; PRIOR FILING DATE: 1999-07-26  
; PRIOR APPLICATION NUMBER: US 60/146,222  
; PRIOR FILING DATE: 1999-07-28  
; PRIOR APPLICATION NUMBER: PCT/US99/20594  
; PRIOR FILING DATE: 1999-09-08  
; PRIOR APPLICATION NUMBER: PCT/US99/20944  
; PRIOR FILING DATE: 1999-09-13  
; PRIOR APPLICATION NUMBER: PCT/US99/21090  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/21547  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/23089  
; PRIOR FILING DATE: 1999-10-05  
; PRIOR APPLICATION NUMBER: PCT/US99/28214  
; PRIOR FILING DATE: 1999-11-29  
; PRIOR APPLICATION NUMBER: PCT/US99/28313  
; PRIOR FILING DATE: 1999-11-30  
; PRIOR APPLICATION NUMBER: PCT/US99/28564  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/28565  
; PRIOR FILING DATE: 1999-12-02

```
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 64
; LENGTH: 312
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-908-093-64

Query Match      100.0%; Score 1605; DB 3; Length 312;
Best Local Similarity 100.0%; Pred. No. 3.6e-136;
Matches 312; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MARRSRHLLLLRLYLVALGYHKAYGFSAPKDOOVVTAVEYQEAAILACKTPKKTYSR 60
Db 1 MARRSRHLLLLRLYLVALGYHKAYGFSAPKDOOVVTAVEYQEAAILACKTPKKTYSR 60

Qy 61 LEWKLGSRVSFVYVYQQTLOGDFKNRAEMIDFNIRIKNVTRSDAGKYRCEVSAPSEOCQN 120
Db 61 LEWKLGSRVSFVYVYQQTLOGDFKNRAEMIDFNIRIKNVTRSDAGKYRCEVSAPSEOCQN 120

Qy 121 LEEDTVTLVLVAPVPSCEVPSSALSGTVVELRCQDKEGNAPAPETWFKDGIHLENPR 180
Db 121 LEEDTVTLVLVAPVPSCEVPSSALSGTVVELRCQDKEGNAPAPETWFKDGIHLENPR 180

Qy 181 LGSQSTNSSTYMTNTKTGLQNTVSKLDTGEYSCARNVGYRRCPCGRMQVDDLNISGI 240
Db 181 LGSQSTNSSTYMTNTKTGLQNTVSKLDTGEYSCARNVGYRRCPCGRMQVDDLNISGI 240

Qy 241 IAAVVVALVISVCGLGVCYQARKGYFSKTSFKQSNSSSKATTMSENVQWLTVPVIALW 300
Db 241 IAAVVVALVISVCGLGVCYQARKGYFSKTSFKQSNSSSKATTMSENVQWLTVPVIALW 300

Qy 301 KAAAGGSRGQBF 312
Db 301 KAAAGGSRGQBF 312

RESULT 11
US-09-906-742-64
; Sequence 64, Application US/09906742
; Publication No. US20030023054A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Deenoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
```

```
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/906.742
; CURRENT FILING DATE: 2001-07-16
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 64
; LENGTH: 312
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-906-742-64
```

```
Query Match      100.0%; Score 1605; DB 3; Length 312;
Best Local Similarity 100.0%; Pred. No. 3.6e-136;
Matches 312; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MARRSRHLLLLRLYLVALGYHKAYGFSAPKDOOVVTAVEYQEAAILACKTPKKTYSR 60
Db 1 MARRSRHLLLLRLYLVALGYHKAYGFSAPKDOOVVTAVEYQEAAILACKTPKKTYSR 60

Qy 61 LEWKLGSRVSFVYVYQQTLOGDFKNRAEMIDFNIRIKNVTRSDAGKYRCEVSAPSEOCQN 120
Db 61 LEWKLGSRVSFVYVYQQTLOGDFKNRAEMIDFNIRIKNVTRSDAGKYRCEVSAPSEOCQN 120

Qy 121 LEEDTVTLVLVAPVPSCEVPSSALSGTVVELRCQDKEGNAPAPETWFKDGIHLENPR 180
Db 121 LEEDTVTLVLVAPVPSCEVPSSALSGTVVELRCQDKEGNAPAPETWFKDGIHLENPR 180

Qy 181 LGSQSTNSSTYMTNTKTGLQNTVSKLDTGEYSCARNVGYRRCPCGRMQVDDLNISGI 240
Db 181 LGSQSTNSSTYMTNTKTGLQNTVSKLDTGEYSCARNVGYRRCPCGRMQVDDLNISGI 240

Qy 241 IAAVVVALVISVCGLGVCYQARKGYFSKTSFKQSNSSSKATTMSENVQWLTVPVIALW 300
Db 241 IAAVVVALVISVCGLGVCYQARKGYFSKTSFKQSNSSSKATTMSENVQWLTVPVIALW 300
```



; CURRENT FILING DATE: 2001-07-17  
; PRIOR APPLICATION NUMBER: PCT/US00/04414  
; PRIOR FILING DATE: 2000-02-22  
; PRIOR APPLICATION NUMBER: US 60/143,048  
; PRIOR FILING DATE: 1999-07-07  
; PRIOR APPLICATION NUMBER: US 60/145,698  
; PRIOR FILING DATE: 1999-07-26  
; PRIOR APPLICATION NUMBER: US 60/146,222  
; PRIOR FILING DATE: 1999-07-28  
; PRIOR APPLICATION NUMBER: PCT/US99/20594  
; PRIOR FILING DATE: 1999-09-08  
; PRIOR APPLICATION NUMBER: PCT/US99/20944  
; PRIOR FILING DATE: 1999-09-13  
; PRIOR APPLICATION NUMBER: PCT/US99/21090  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/21547  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/23089  
; PRIOR FILING DATE: 1999-10-05  
; PRIOR APPLICATION NUMBER: PCT/US99/28214  
; PRIOR FILING DATE: 1999-11-29  
; PRIOR APPLICATION NUMBER: PCT/US99/28313  
; PRIOR FILING DATE: 1999-11-30  
; PRIOR APPLICATION NUMBER: PCT/US99/28564  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/28565  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/30095  
; PRIOR FILING DATE: 1999-12-16  
; PRIOR APPLICATION NUMBER: PCT/US99/30911  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US99/30999  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US00/00219  
; NUMBER OF SEQ ID NOS: 423  
; SEQ ID NO 64  
; LENGTH: 312  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-907-613-64

Query Match 100.0%; Score 1605; DB 3; Length 312;  
Best Local Similarity 100.0%; Pred. No. 3.6e-136; Indels 0; Gaps 0;  
Matches 312; Conservative 0; Mismatches 0;  
  
Qy 1 MARRSRHRLLLRLYLVALGYHKAYGFSAPKQQQVTAVEYQEAIIACKTPKKTVSSR 60  
Db 1 MARRSRHRLLLRLYLVALGYHKAYGFSAPKQQQVTAVEYQEAIIACKTPKKTVSSR 60  
  
Qy 61 LEWKLGSRVSVFYVYQQTLOGDFKNRAEMIDFNIRIKNVTSDAGKYRCEVSAPSEQQN 120  
Db 61 LEWKLGSRVSVFYVYQQTLOGDFKNRAEMIDFNIRIKNVTSDAGKYRCEVSAPSEQQN 120  
  
Qy 121 LEEDTVTLVLVAPVSPCEVPSSALSGTVVLELQDKEGPNPAPETWFKDGIRLLENPR 180  
Db 121 LEEDTVTLVLVAPVSPCEVPSSALSGTVVLELQDKEGPNPAPETWFKDGIRLLENPR 180  
  
Qy 181 LGSQSTSSSYTMNTKTGTQLQNTVSKLDTGEYSCEARNVGVYRCPGKRMQVDDLNISGI 240  
Db 181 LGSQSTSSSYTMNTKTGTQLQNTVSKLDTGEYSCEARNVGVYRCPGKRMQVDDLNISGI 240  
  
Qy 241 IAAVVVALVTSVCGLGVCYQKRGYFSKETSFOKSNSSSKATTMSENVQMLTPVIPALW 300  
Db 241 IAAVVVALVTSVCGLGVCYQKRGYFSKETSFOKSNSSSKATTMSENVQMLTPVIPALW 300  
  
Qy 301 KAAAGSGRGQEF 312  
Db 301 KAAAGSGRGQEF 312

RESULT 14  
US-09-907-942-64

; Sequence 64, Application US/09907942  
; Publication No. US20030027146A1  
; GENERAL INFORMATION:  
; APPLICANT: Genentech, Inc.  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Botstein, David  
; APPLICANT: Deanoyers, Luc  
; APPLICANT: Eaton, Dan L.  
; APPLICANT: Ferrara, Napoleone  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Geritsen, Mary E.  
; APPLICANT: Goddard, A.  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, Christopher J.  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth, J.  
; APPLICANT: Kijavin, Ivar J.  
; APPLICANT: Mather, Jennie P.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William, I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE REFERENCE: 10466-14  
; CURRENT APPLICATION NUMBER: US/09/907,942  
; CURRENT FILING DATE: 2002-01-22  
; PRIOR APPLICATION NUMBER: PCT/US00/04414  
; PRIOR FILING DATE: 2000-02-22  
; PRIOR APPLICATION NUMBER: US 60/143,048  
; PRIOR FILING DATE: 1999-07-07  
; PRIOR APPLICATION NUMBER: US 60/145,698  
; PRIOR FILING DATE: 1999-07-26  
; PRIOR APPLICATION NUMBER: US 60/146,222  
; PRIOR FILING DATE: 1999-07-28  
; PRIOR APPLICATION NUMBER: PCT/US99/20594  
; PRIOR FILING DATE: 1999-09-08  
; PRIOR APPLICATION NUMBER: PCT/US99/20944  
; PRIOR FILING DATE: 1999-09-13  
; PRIOR APPLICATION NUMBER: PCT/US99/21090  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/21547  
; PRIOR FILING DATE: 1999-09-15  
; PRIOR APPLICATION NUMBER: PCT/US99/23089  
; PRIOR FILING DATE: 1999-10-05  
; PRIOR APPLICATION NUMBER: PCT/US99/28214  
; PRIOR FILING DATE: 1999-11-29  
; PRIOR APPLICATION NUMBER: PCT/US99/28313  
; PRIOR FILING DATE: 1999-11-30  
; PRIOR APPLICATION NUMBER: PCT/US99/28564  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/28565  
; PRIOR FILING DATE: 1999-12-02  
; PRIOR APPLICATION NUMBER: PCT/US99/30095  
; PRIOR FILING DATE: 1999-12-16  
; PRIOR APPLICATION NUMBER: PCT/US99/30911  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US99/30999  
; PRIOR FILING DATE: 1999-12-20  
; PRIOR APPLICATION NUMBER: PCT/US00/00219  
; PRIOR FILING DATE: 2000-01-05  
; NUMBER OF SEQ ID NOS: 423  
; SEQ ID NO 64  
; LENGTH: 312  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-907-942-64



```
Query Match      100.0%; Score 1605; DB 3; Length 312;
Best Local Similarity 100.0%; Pred. No. 3.6e-136;
Matches 312; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MARRSRHRLLLLLRYLVVALGYHKAYGFSAPKQOOVTVAVEYQEAAILACKTPKKTVSSR 60
Db 1 MARRSRHRLLLLLRYLVVALGYHKAYGFSAPKQOOVTVAVEYQEAAILACKTPKKTVSSR 60

Qy 61 LEWKKLGRSVSVFYVYQOQLQGDFFKNRAEMIDFNIRIKNVTSDAGKYRCEVSAPSEOGON 120
Db 61 LEWKKLGRSVSVFYVYQOQLQGDFFKNRAEMIDFNIRIKNVTSDAGKYRCEVSAPSEOGON 120

Qy 121 LEEDTVTLVLVAPVPSCVPSSALSGTVVVELRCQDKEGNPAPETWFKDGIRLLENPR 180
Db 121 LEEDTVTLVLVAPVPSCVPSSALSGTVVVELRCQDKEGNPAPETWFKDGIRLLENPR 180

Qy 181 LGSQSTNSSTYTNMTKTGTLOFTNTVSKLDTGEYSCEARNSVGYRRCPGKRMQVDDLNISGI 240
Db 181 LGSQSTNSSTYTNMTKTGTLOFTNTVSKLDTGEYSCEARNSVGYRRCPGKRMQVDDLNISGI 240

Qy 241 TAAVVVALVTSVCGLGVCYAKRGYFSKETSFOKSNSSSKATTMSENVOMLTPVIPALW 300
Db 241 TAAVVVALVTSVCGLGVCYAKRGYFSKETSFOKSNSSSKATTMSENVOMLTPVIPALW 300

Qy 301 KAAAGSGRGQEF 312
Db 301 KAAAGSGRGQEF 312
```

RESULT 15

```
US-09-904-859-64
; Sequence 64, Application US/09904859
; Publication No. US200300306060A1
; GENERAL INFORMATION:
; APPLICANT: Genentech, Inc.
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary B.
; APPLICANT: Goddard, A.
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth, J.
; APPLICANT: Klijavin, Ivar J.
; APPLICANT: Mather, Jennie P.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas P.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William, I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: 10466-14
; CURRENT APPLICATION NUMBER: US/09/904,859
; PRIOR FILING DATE: 2001-07-12
; PRIOR APPLICATION NUMBER: 09/665,350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: PCT/US00/04414
; PRIOR FILING DATE: 2000-02-22
; PRIOR APPLICATION NUMBER: US 60/143,048
; PRIOR FILING DATE: 1999-07-07
; PRIOR APPLICATION NUMBER: US 60/145,698
; PRIOR FILING DATE: 1999-07-26
```

```
; PRIOR APPLICATION NUMBER: US 60/146,222
; PRIOR FILING DATE: 1999-07-28
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/20944
; PRIOR FILING DATE: 1999-09-13
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/23089
; PRIOR FILING DATE: 1999-10-05
; PRIOR APPLICATION NUMBER: PCT/US99/28214
; PRIOR FILING DATE: 1999-11-29
; PRIOR APPLICATION NUMBER: PCT/US99/28313
; PRIOR FILING DATE: 1999-11-30
; PRIOR APPLICATION NUMBER: PCT/US99/28564
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/28565
; PRIOR FILING DATE: 1999-12-02
; PRIOR APPLICATION NUMBER: PCT/US99/30095
; PRIOR FILING DATE: 1999-12-16
; PRIOR APPLICATION NUMBER: PCT/US99/30911
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US99/30999
; PRIOR FILING DATE: 1999-12-20
; PRIOR APPLICATION NUMBER: PCT/US00/00219
; PRIOR FILING DATE: 2000-01-05
; NUMBER OF SEQ ID NOS: 423
; SEQ ID NO 64
; LENGTH: 312
; TYPE: PRT
; ORGANISM: Homo Sapien
US-09-904-859-64
```

```
Query Match      100.0%; Score 1605; DB 3; Length 312;
Best Local Similarity 100.0%; Pred. No. 3.6e-136;
Matches 312; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 MARRSRHRLLLLLRYLVVALGYHKAYGFSAPKQOOVTVAVEYQEAAILACKTPKKTVSSR 60
Db 1 MARRSRHRLLLLLRYLVVALGYHKAYGFSAPKQOOVTVAVEYQEAAILACKTPKKTVSSR 60

Qy 61 LEWKKLGRSVSVFYVYQOQLQGDFFKNRAEMIDFNIRIKNVTSDAGKYRCEVSAPSEOGON 120
Db 61 LEWKKLGRSVSVFYVYQOQLQGDFFKNRAEMIDFNIRIKNVTSDAGKYRCEVSAPSEOGON 120

Qy 121 LEEDTVTLVLVAPVPSCVPSSALSGTVVVELRCQDKEGNPAPETWFKDGIRLLENPR 180
Db 121 LEEDTVTLVLVAPVPSCVPSSALSGTVVVELRCQDKEGNPAPETWFKDGIRLLENPR 180

Qy 181 LGSQSTNSSTYTNMTKTGTLOFTNTVSKLDTGEYSCEARNSVGYRRCPGKRMQVDDLNISGI 240
Db 181 LGSQSTNSSTYTNMTKTGTLOFTNTVSKLDTGEYSCEARNSVGYRRCPGKRMQVDDLNISGI 240

Qy 241 TAAVVVALVTSVCGLGVCYAKRGYFSKETSFOKSNSSSKATTMSENVOMLTPVIPALW 300
Db 241 TAAVVVALVTSVCGLGVCYAKRGYFSKETSFOKSNSSSKATTMSENVOMLTPVIPALW 300

Qy 301 KAAAGSGRGQEF 312
Db 301 KAAAGSGRGQEF 312
```

Search completed: December 6, 2005, 13:45:36  
Job time : 166 secs

**This Page Blank (uspto)**

GenCore version 5.1.1.6  
Copyright (c) 1993 - 2005 CompuGen Ltd.

OM protein - protein search, using ew model

Run on: December 6, 2005, 13:32:09 ; Search time 12 Seconds  
(without alignments)  
124.497 Million cell updates/sec

Title: US-10-785-607B-9

Perfect score: 1605

Sequence: 1 MARRGRHRLLLRLVVA.....TPVPLWKAAGSGRGQEF 312

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 26661 seqs, 4788334 residues

Total number of hits satisfying chosen parameters: 26661

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA New:\*

1: /cgn2\_6/ptodata/1/pubpaa/US09\_NEW\_PUB.pep.\*  
2: /cgn2\_6/ptodata/1/pubpaa/US06\_NEW\_PUB.pep.\*  
3: /cgn2\_6/ptodata/1/pubpaa/US07\_NEW\_PUB.pep.\*  
4: /cgn2\_6/ptodata/1/pubpaa/US08\_NEW\_PUB.pep.\*  
5: /cgn2\_6/ptodata/1/pubpaa/FCT\_NEW\_PUB.pep.\*  
6: /cgn2\_6/ptodata/1/pubpaa/US10\_NEW\_PUB.pep.\*  
7: /cgn2\_6/ptodata/1/pubpaa/US11\_NEW\_PUB.pep.\*  
8: /cgn2\_6/ptodata/1/pubpaa/US60\_NEW\_PUB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1605	100.0	312	6	US-10-131-826A-336
2	461.5	28.8	310	6	US-10-131-826A-338
3	461.5	28.8	362	6	US-10-821-234-1148
4	404	25.2	299	6	US-10-131-826A-366
5	210	13.1	390	6	US-10-131-826A-338
6	198.5	12.4	365	7	US-11-102-978-9
7	163.5	10.2	373	6	US-10-131-826A-388
8	156	9.7	1897	6	US-10-821-234-1635
9	155	9.7	298	7	US-11-085-812-4
10	155	9.7	330	7	US-11-085-812-2
11	154.5	9.6	4419	6	US-10-821-234-1155
12	149.5	9.3	7968	7	US-11-186-731-5
13	143.5	8.9	398	6	US-10-131-826A-348
14	143.5	8.9	1694	7	US-11-135-855-36
15	143.5	8.9	1709	7	US-11-135-855-35
16	136	8.5	500	7	US-11-102-240-84
17	134.5	8.4	290	7	US-11-113-424-77
18	131.5	8.2	344	6	US-10-131-826A-376
19	126.5	7.9	419	6	US-10-821-234-1564
20	126	7.9	1338	6	US-10-821-234-1622
21	126	7.9	1338	7	US-11-109-156-23
22	126	7.9	2630	7	US-11-186-731-2
23	125.5	7.8	282	7	US-11-102-240-60
24	123	7.7	442	6	US-10-821-234-1594
25	123	7.7	740	7	US-11-137-465-61

Sequence 62, Appl  
Sequence 352, App  
Sequence 1209, Ap  
Sequence 386, App  
Sequence 1585, Ap  
Sequence 1015, Ap  
Sequence 189, App  
Sequence 104, App  
Sequence 378, App  
Sequence 2, Appl  
Sequence 24, Appl  
Sequence 50, Appl  
Sequence 292, App  
Sequence 892, App  
Sequence 134, App  
Sequence 78, Appl  
Sequence 368, App  
Sequence 2, Appl  
Sequence 520, App  
Sequence 1308, Ap

## ALIGNMENTS

### RESULT 1

US-10-131-826A-336  
; Sequence 336, Application US/10131826A  
; Publication No. US20050245730A1  
; GENERAL INFORMATION:  
; APPLICANT: Baker, Kevin P.  
; APPLICANT: Beresini, Maureen  
; APPLICANT: DeForge, Laura  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerritsen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Sherwood, Steven  
; APPLICANT: Smith, Victoria  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Watanabe, Colin K  
; APPLICANT: Wood, William  
; APPLICANT: Zhang, Zemin  
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC  
; FILE REFERENCE: P3330R1C128  
; CURRENT APPLICATION NUMBER: US/10/131,826A  
; CURRENT FILING DATE: 2002-04-24  
; PRIOR APPLICATION NUMBER: 60/049911  
; PRIOR FILING DATE: 1997-06-18  
; PRIOR APPLICATION NUMBER: 60/056974  
; PRIOR FILING DATE: 1997-08-26  
; PRIOR APPLICATION NUMBER: 60/059113  
; PRIOR FILING DATE: 1997-09-17  
; PRIOR APPLICATION NUMBER: 60/059115  
; PRIOR FILING DATE: 1997-09-17  
; PRIOR APPLICATION NUMBER: 60/059117  
; PRIOR FILING DATE: 1997-09-17  
; PRIOR APPLICATION NUMBER: 60/059122  
; PRIOR FILING DATE: 1997-09-17  
; PRIOR APPLICATION NUMBER: 60/059184  
; PRIOR FILING DATE: 1997-09-17  
; PRIOR APPLICATION NUMBER: 60/059263  
; PRIOR FILING DATE: 1997-09-18  
; PRIOR APPLICATION NUMBER: 60/059352  
; PRIOR FILING DATE: 1997-09-19  
; PRIOR APPLICATION NUMBER: 60/059588  
; PRIOR FILING DATE: 1997-09-19  
; Remaining Prior Application data removed - See File Wrapper or PALM.





```

; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 338
; LENGTH: 390
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-131-826A-338

Query Match      13.1%; Score 210; DB 6; Length 390;
Best Local Similarity 27.9%; Pred. No. 5.8e-11;
Matches 78; Conservative 43; Mismatches 105; Indels 54; Gaps 11;

Qy 9 LLLLLLRYLVVALGYHKYGFSAKDDQV-----VTAVEYQEAII-ACKTPKTKTVSS 59
Db 8 LVTNLLRFLFLGLS-----ALAPPSRAQLQLHPANRLQAVEGGEVLPANVTLHGEVSS 62

Qy 60 RLEWKKLGRSVSFV--YQQTLQGD-----FKNRAEMI-----DFNIRIKNVT 100
Db 63 SQPWS-----VPFVMMFFKQEKEDQVLSYINGVTTSPKGVSLVYSMPSRNLSLRLEGLQ 117

Qy 101 RSDAGKYRCEVSAPSEQONLEEDVTLE--VLVAPVPSCVPSSESSALSGTVELRCODK 158
Db 118 EKDGSPVCSNVQDKQSGHSHKTLLELNVLPAPPSCRLOQVPHVGANVTLSCOSP 177

Qy 159 EGNPAPEYTFPKDGIRLLENPRLGQSQTNSSTYTMNTKTGTQLQFNTVSKLDTGEYSCEARN 218
Db 178 RSKPAVQYQW-----DRQLPSFQTFPAPALDVIRGSLSLTNLSSSMAGVYVCKAHN 228

Qy 219 SVGYRRCPGKMQVDNLLNISGIIIAVVVALVISVCGLVG 258
Db 229 EVGTAQC-NVTLEVS---TGPAAVAVAGVGTIVLGLGL 263

RESULT 6
US-11-102-978-9
; Sequence 9, Application US/11102978
; Publication No. US20050250142A1
; GENERAL INFORMATION:
; APPLICANT: University of Utah Technology Transfer Office
; APPLICANT: University of Utah Research Foundation
; TITLE OF INVENTION: Diagnosis and Treatment of Herpes Simplex Virus Disease
; FILE REFERENCE: 0274-5537.1US
; CURRENT APPLICATION NUMBER: US/11/102.978
; PRIOR FILING DATE: 2005-04-11
; PRIOR APPLICATION NUMBER: PCT/US2003/033152
; PRIOR FILING DATE: 2003-10-18
; PRIOR APPLICATION NUMBER: 60/419,576
; PRIOR FILING DATE: 2002-10-18
; NUMBER OF SEQ ID NOS: 13
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 9
; LENGTH: 365
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-102-978-9

Query Match      12.4%; Score 198.5; DB 7; Length 365;
Best Local Similarity 23.3%; Pred. No. 5e-10;
Matches 67; Conservative 58; Mismatches 122; Indels 41; Gaps 9;

Qy 10 LLLLLLRYLVVALGYHKYGFSAKDDQVVTAVEYQEAIIACK---TPKTKTVSSRLW--- 63
Db 3 LLLCFVLLCGVDFARSLSITTP--EEMIEKAKGETAYLPCKFTLSLPEDQGLPIEWLIS 60

Qy 64 ----KKLGRSVSFVYQQTLQGD-----KNRAEMIDFNIRIKNVTSDAGKYR 108
Db 61 PADNQKVDQ-VILLYSGDKIYDDYVPLDKGRVHFTSNDLKGDSASINVTNLQSLDIGTYQ 119

Qy 109 CEVSAPSEQONLEEDVTLEVLVAPVPSCVPSSESSALSGTVELRCODKGNPAPEYTW 168
Db 120 CKV-----KKAPGVANKKTHLVVLKPGSARCYVDSGEISGDFKIKCEPKESLPLQYEW 175

Qy 169 FKDGIRLLENPRLGQSQTNSSTYTMNTKTGTQLQFNTVSKLDTGEYSCEARNVGYRRCPGK 228

```

```

Db 176 QK-----LSDSQKMTSWLAEMTSSVISVKNASSEYSGTYSCTVRNRVSGDQCLLR 226
Qy 229 RMQVDDLNIISGIIA-AVVVALVISVCGLVGCVAQRKGYFSKETSFOK 275
Db 227 LNVVPPSNKAGLTAGAIIGTLLALALIGLTIFFCCRKK---RREKYEK 271

RESULT 7
US-10-131-826A-388
; Sequence 388, Application US/10131826A
; Publication No. US20050245730A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C128
; CURRENT APPLICATION NUMBER: US/10/131,826A
; CURRENT FILING DATE: 2002-04-24
; PRIOR APPLICATION NUMBER: 60/049911
; PRIOR FILING DATE: 1997-06-18
; PRIOR APPLICATION NUMBER: 60/056974
; PRIOR FILING DATE: 1997-08-26
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059115
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059117
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059122
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059184
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059263
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059352
; PRIOR FILING DATE: 1997-09-19
; PRIOR APPLICATION NUMBER: 60/059588
; PRIOR FILING DATE: 1997-09-19
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 388
; LENGTH: 373
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-131-826A-388

Query Match      10.2%; Score 163.5; DB 6; Length 373;
Best Local Similarity 24.2%; Pred. No. 4.5e-07;
Matches 65; Conservative 45; Mismatches 112; Indels 47; Gaps 11;

Qy 9 LLLLLLRYLVVALGYHKYGFSAKDDQVVTAVEYQEAIIACK---TPKTKTVSSRLW- 63
Db 5 LLLLLSVYYGTLTGTHTE-----IKRVAEKKVTLFCHHQLGLPKKDTLD-IEWL 52

Qy 64 -----KKLGRSVSFVYQQTLQGD FKNRAEMI-----DFNIRIKNVTSDAGKYRCE 110
Db 53 LTDNEGKQVITYTSSSHVYNNLTTEEQKGRVAFASNLADGASIQIEPLKPSDEGRYCK 112

```

```
QY 111 VSAPSEQQNLEEDTTLVLVAVPVPSCVPSALSGLTGVVLRQCKEGNPAPETWPK 170
      |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
Db 113 V---KNSGRYVNSH-VILKVLVRPSKPKCELGELTEGSDLTLCQESSSGTEPIVTVQR 168
      |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
QY 171 DGIRLLENPRLSQSTNSSTYNTKTGTLOFNTVSKLDTGEYSCEARNVGYRRCPGKRM 230
      |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
Db 169 IREKGEDEBRLPKS-RIDY---NHPRVLLQNLMTSYSLGYOCTAGNEAGKESCV-VRV 223
      |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
QY 231 QVDDLNL-----ISGIIAAVVVVVALVI 251
      |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
Db 224 TVQYVQSIGMWAGAVTGIVAGALLIFLV 252
      |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
```

```
RESULT 8
US-10-821-234-1635
; Sequence 1635, Application US/10821234
; Publication No. US200502551141
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crain, Birgit
; APPLICANT: Andarmani, Susan
; APPLICANT: Tang, Y. Tom
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preeclampsia
; FILE REFERENCE: 821A
; CURRENT APPLICATION NUMBER: US/10/821,234
; CURRENT FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: US 60/462,047
; PRIOR FILING DATE: 2003-04-07
; NUMBER OF SEQ ID NOS: 1704
; SOFTWARE: pt_seq_genes Version 1.0
; SEQ ID NO 1635
; LENGTH: 1897
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-821-234-1635
```

```
Query Match          9.7%; Score 156; DB 6; Length 1897;
Best Local Similarity 25.8%; Pred. No. 1.5e-05;
Matches 59; Conservative 35; Mismatches 89; Indels 46; Gaps 10;

QY 11 LLLRLYLVALGYHKAYGFSAPKQQQVTVAYEYQBAILACKT---PKKTVSSRLSWKKLG 67
      |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
Db 8 LVMLGLVAGAHGDSKPFVFIKVPEDQ---TGLSGGVASFVQATGEPK---PRITWKKG 60
      |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
QY 68 RSVSFVYQOTLQGFQKRAEMIDFN-----IRKNV-TRSDAGKYRCEVSAPSEQQN 120
      |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
Db 61 KKVS-----SORFEVIEFDGAGSVLRIQPLRVQRDEAIYECTATNSLGEINT 108
      |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
QY 121 LEEDTVTLVLVAVPVPSC-----VPSSALSGLTGVVLRQCKEGNPAPETWPKDGIR 174
      |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
Db 109 SAKLSVLEEQLPPGFPAIDMGFPQKVKVKARTATML---CA-AGNPDPELSWFKDFLP 164
      |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
QY 175 LLENPRLSQSTNSSTYNTKTGTLOFNTVSKLDTGEYSCEARNVGYR 223
      |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
Db 165 V-----DPATNSGRILQRLSGALQIESSESDQKYEVCATNSAGTR 206
      |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
```

```
RESULT 9
US-11-085-812-4
; Sequence 4, Application US/11085812
; Publication No. US20050261186A1
; GENERAL INFORMATION:
; APPLICANT: Marchionni, Mark
; TITLE OF INVENTION: NRG-2 NUCLEIC ACID MOLECULES,
; FILE REFERENCE: POLYPEPTIDES, AND DIAGNOSTIC AND THERAPEUTIC METHODS
; CURRENT APPLICATION NUMBER: US/11/085,812
; CURRENT FILING DATE: 2005-03-21
; PRIOR APPLICATION NUMBER: US 60/206,495
; PRIOR FILING DATE: 2000-05-23
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: FastSeq for Windows Version 4.0
```

```
; SEQ ID NO 4
; LENGTH: 298
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-085-812-4

Query Match          9.7%; Score 155; DB 7; Length 298;
Best Local Similarity 27.7%; Pred. No. 1.8e-06;
Matches 56; Conservative 24; Mismatches 86; Indels 36; Gaps 8;

QY 66 LGRSVSFVYQOTLQGD---FKNRAEMIDFNIRIKNVTNRSDAGKYRCEVSAPSEQQNLEE 123
      |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
Db 96 LERNQRYIFFLEPTEQPLVFKTAPAPLDTN--GKNL-KKEVGKILCTDCATRPKLKKMKS 152
      |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
QY 124 DTVTLVLVAVPVPSCVPSALSGLTGVVLRQCKEGNPAPETWPKDGIRLLENPRLS 183
      |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
Db 153 QTQGV-----GEKQSLKCEAAAGNPQPSYRWFKDGKELNR-----S 188
      |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
QY 184 QSTNSSYTMNTKTGTLOFNTVSKLDTGEYSCEARNVGYRRCPGKRMQVDDLNI-----S 238
      |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
Db 189 RDIRIKYNGRKNRSLQFNKVKVEDAGEYVCEAENILCKDTVRG-RLVNSVSTTLSSWS 247
      |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
QY 239 GIIAAVVVVALVISVCGLGVCY 260
      |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
Db 248 GHARKCNETAKSYCVNG-GVCY 268
      |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
```

```
RESULT 10
US-11-085-812-2
; Sequence 2, Application US/11085812
; Publication No. US20050261186A1
; GENERAL INFORMATION:
; APPLICANT: Marchionni, Mark
; TITLE OF INVENTION: NRG-2 NUCLEIC ACID MOLECULES,
; FILE REFERENCE: POLYPEPTIDES, AND DIAGNOSTIC AND THERAPEUTIC METHODS
; CURRENT APPLICATION NUMBER: US/11/085,812
; CURRENT FILING DATE: 2005-03-21
; PRIOR APPLICATION NUMBER: US 60/206,495
; PRIOR FILING DATE: 2000-05-23
; NUMBER OF SEQ ID NOS: 18
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 330
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-085-812-2
```

```
Query Match          9.7%; Score 155; DB 7; Length 330;
Best Local Similarity 27.7%; Pred. No. 2e-06;
Matches 56; Conservative 24; Mismatches 86; Indels 36; Gaps 8;

QY 66 LGRSVSFVYQOTLQGD---FKNRAEMIDFNIRIKNVTNRSDAGKYRCEVSAPSEQQNLEE 123
      |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
Db 96 LERNQRYIFFLEPTEQPLVFKTAPAPLDTN--GKNL-KKEVGKILCTDCATRPKLKKMKS 152
      |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
QY 124 DTVTLVLVAVPVPSCVPSALSGLTGVVLRQCKEGNPAPETWPKDGIRLLENPRLS 183
      |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
Db 153 QTQGV-----GEKQSLKCEAAAGNPQPSYRWFKDGKELNR-----S 188
      |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
QY 184 QSTNSSYTMNTKTGTLOFNTVSKLDTGEYSCEARNVGYRRCPGKRMQVDDLNI-----S 238
      |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
Db 189 RDIRIKYNGRKNRSLQFNKVKVEDAGEYVCEAENILCKDTVRG-RLVNSVSTTLSSWS 247
      |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
QY 239 GIIAAVVVVALVISVCGLGVCY 260
      |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
Db 248 GHARKCNETAKSYCVNG-GVCY 268
      |:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|:::|
```

```
RESULT 11
US-10-821-234-1155
; Sequence 1155, Application US/10821234
; Publication No. US200502551141
```

```
; GENERAL INFORMATION:
; APPLICANT: Labat, Ivan
; APPLICANT: Stache-Crain, Birgit
; APPLICANT: Andarmani, Susan
; APPLICANT: Tang, Y. Tom
; TITLE OF INVENTION: Methods for Diagnosis and Treatment of Preclampsia
; FILE REFERENCE: 821A
; CURRENT APPLICATION NUMBER: US/10/821,234
; PRIOR FILING DATE: 2004-04-07
; PRIOR APPLICATION NUMBER: US 60/462,047
; PRIOR FILING DATE: 2003-04-07
; NUMBER OF SEQ ID NOS: 1704
; SOFTWARE: pt seq_genes Version 1.0
; SEQ ID NO 1155
; LENGTH: 4419
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-10-821-234-1155

Query Match          9.6%; Score 154.5; DB 6; Length 4419;
Best Local Similarity 24.5%; Pred. No. 5.6e-05;
Matches 74; Conservative 26; Mismatches 129; Indels 73; Gaps 12;

Qy 31 APKQQVVTAVEYQ-----EAILACKTPKKTSSRLWKLGSRVSFVYYQQTLOGD 82
Db 1794 APSKPITVVEQRQSQRPGADVTFICTAKSKSPAYLVVTRLH-----NGK 1841

Qy 83 FKNAEMIDFN--TRIKNVTSDAGKYRCEVSAEQQQN---LEEDTVTLEV-----LV 132
Db 1842 LPTRA--MDFNGILTRIVQLSDAGTYVC-----TGSNNFAMDQGTATLHVQASGTL 1892

Qy 133 APVPSCSEVPSSALSGTGVVELRCQDKGNPAPEYTFWKGIRLLENPRLGSGQSTNSSYTM 192
Db 1893 APVSIHPQITVQPGQLAEFRC--SATGSPITPLEW-----TGGPGQLPAKA 1939

Qy 193 NTKTGTLOFNTVSKLDTGEYSCEARNVGYRR-----PGKRMQVDDLNIISGIIAA 243
Db 1940 QIHGILLRLPAVEPTDQAYLCRAHSSAGQVARAVLHVHGGGPRVQVSPERTQ--VHA 1997

Qy 244 VVVVALVSVCGLVGYAQRGYSFKETSFKSNSSKATMSENQVQLTTPVIALWCAA 303
Db 1998 GRTVRL-----YCAAAGVPSATITWRKEGSLPPQARSERTDIATLLIPAITTAD 2047

Qy 304 AG 305
Db 2048 AG 2049

RESULT 12
US-11-186-731-5
; Sequence 5, Application US/11186731
; Publication No. US20050255521A1
; GENERAL INFORMATION:
; APPLICANT: Kapeller-Libermann, Rosana
; APPLICANT: Acton, Susan L.
; TITLE OF INVENTION: 59079 and 12599, Protein Kinase Family
; TITLE OF INVENTION: Members and Uses Therefor
; FILE REFERENCE: MPI2001-047PIRCPI (M)
; CURRENT APPLICATION NUMBER: US/11/186,731
; CURRENT FILING DATE: 2005-07-21
; PRIOR APPLICATION NUMBER: US/10/077,130
; PRIOR FILING DATE: 2002-02-15
; PRIOR APPLICATION NUMBER: 60/269201
; PRIOR FILING DATE: 2001-02-15
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 7968
; TYPE: PRT
; ORGANISM: Homo sapiens
; US-11-186-731-5

Query Match          9.3%; Score 149.5; DB 7; Length 7968;

; GENERAL INFORMATION:
; Sequence 348, Application US/10131826A
; Publication No. US20050245730A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Beresini, Maureen
; APPLICANT: DeForge, Laura
; APPLICANT: Desnoyers, Luc
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Sherwood, Steven
; APPLICANT: Smith, Victoria
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Watanabe, Colin K
; APPLICANT: Wood, William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3330R1C128
; CURRENT APPLICATION NUMBER: US/10/131,826A
; CURRENT FILING DATE: 2002-04-24
; PRIOR APPLICATION NUMBER: 60/049911
; PRIOR FILING DATE: 1997-06-18
; PRIOR APPLICATION NUMBER: 60/056974
; PRIOR FILING DATE: 1997-08-26
; PRIOR APPLICATION NUMBER: 60/059113
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059115
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059117
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059122
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059184
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059263
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059352
; PRIOR FILING DATE: 1997-09-19
; PRIOR APPLICATION NUMBER: 60/059588
; PRIOR FILING DATE: 1997-09-19
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 348
; LENGTH: 398
; TYPE: PRT
; ORGANISM: Homo Sapien
```



US-10-131-826A-348

```
Query Match      8.9%; Score 143.5; DB 6; Length 398;
Best Local Similarity 24.9%; Pred. No. 2.4e-05;
Matches 71; Conservative 46; Mismatches 117; Indels 51; Gaps 14;

Qy 42 EYQEAAILACKTPKKTYSRLEWKKLGRSVFVYYOOT-LQGDFKNRAEMIDFNIRKVT 100
Db 144 EKDTATLNCQSSGSPAAARLTWRKGDQ-----LHGEPTRIQEDPNGKTFVSSSVTFQ-VT 199

Qy 101 RSDAG-KYRCEVSAPSEOGONLEEDVTLEVLVAPVPSCEVPSSALSSTVVELRCQDKE 159
Db 200 REDDASIVCSVNHESLKGAD-RSTQRIEVIYTTAMIRPPHPRREGQKLLHCEGR- 257

Qy 160 GNPAP-EYTFWFKDGIRLLENPRLGQSTNSSTYMTTKGTQLQFNTVSKLDTCGEYCEARN 218
Db 258 GNPVQQVLEWKEG-----SVPL-----KMTQESALIFPPLNKSDSGTYGCTATS 303

Qy 219 SVGYRCFCGKMQVDDLN-----ISGIIAAVVVALVISVCGLVGVCYAKRG-Y 266
Db 304 NMGSYKA-YITLNVNDPSPVPSSSSTYHAIIGGIVAFIVFLLLIMLIFLGHYLIHRKGT 362

Qy 267 FSKETSFOKSSSSKATMSENVQMLTPVIPALWKAAGSGRQGE 311
Db 363 LTHERA--KGSDDAPDADT-----AIINAEQGQSGGDD 392
```

```
RESULT 14
US-11-135-855-36
; Sequence 36, Application US/11135855
; Publication No. US20050255557A1
; GENERAL INFORMATION:
; APPLICANT: SMITHKLINE BEECHAM CORPORATION
; TITLE OF INVENTION: NOVEL COMPOUNDS
; FILE REFERENCE: GP50013
; CURRENT APPLICATION NUMBER: US/11/135,855
; CURRENT FILING DATE: 2005-05-24
; PRIOR APPLICATION NUMBER: US/10/203,708
; PRIOR FILING DATE: 2002-08-13
; PRIOR APPLICATION NUMBER: PCT/US01/04703
; PRIOR FILING DATE: 2001-02-14
; PRIOR APPLICATION NUMBER: 60/182,172
; PRIOR FILING DATE: 2000-02-14
; PRIOR APPLICATION NUMBER: 60/186,084
; PRIOR FILING DATE: 2000-02-29
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 36
; LENGTH: 1694
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-135-855-36
```

```
Query Match      8.9%; Score 143.5; DB 7; Length 1694;
Best Local Similarity 27.2%; Pred. No. 0.00014;
Matches 52; Conservative 24; Mismatches 82; Indels 33; Gaps 8;

Qy 38 VTAVEYQEAAILACKTPKKTYS--RLEWKKLGRSVFVYYOOTLQGDFFKNRAEMIDFNIR 95
Db 148 VELLEGTEVDNFCSTPYVCLQEQVRLQWQGDPPARSVTFSQKFEPTGVGHLETLHM--- 204

Qy 96 IKNVTRSDAGK-YRCEVSAPSEOGONLEEDVTLEVLVAP-AVPSCEVPS--SALSGTVV 151
Db 205 --AMSWQDHGIRLCQLSVANHRAQS-----EIHQVKYAPKGVKILLSPSGRNITLPGELV 258

Qy 152 ELRCQDKEGNPA-PeyTWFKDGIRLLENPRLGQSTNSSTYMTTKGTQLQFNTVSKLDGTG 210
Db 259 TLTQVNSSYPVAVSSIKWLKDGVR-----QTKTGVHLHPQAASWDAG 301

Qy 211 EYSCARNSVG 221
Db 302 VYTQEAENGVG 312
```

```
RESULT 15
US-11-135-855-35
; Sequence 35, Application US/11135855
; Publication No. US20050255557A1
; GENERAL INFORMATION:
; APPLICANT: SMITHKLINE BEECHAM CORPORATION
; TITLE OF INVENTION: NOVEL COMPOUNDS
; FILE REFERENCE: GP50013
; CURRENT APPLICATION NUMBER: US/11/135,855
; CURRENT FILING DATE: 2005-05-24
; PRIOR APPLICATION NUMBER: US/10/203,708
; PRIOR FILING DATE: 2002-08-13
; PRIOR APPLICATION NUMBER: PCT/US01/04703
; PRIOR FILING DATE: 2001-02-14
; PRIOR APPLICATION NUMBER: 60/182,172
; PRIOR FILING DATE: 2000-02-14
; PRIOR APPLICATION NUMBER: 60/186,084
; PRIOR FILING DATE: 2000-02-29
; NUMBER OF SEQ ID NOS: 46
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 35
; LENGTH: 1709
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-135-855-35
```

```
Query Match      8.9%; Score 143.5; DB 7; Length 1709;
Best Local Similarity 27.2%; Pred. No. 0.00015;
Matches 52; Conservative 24; Mismatches 82; Indels 33; Gaps 8;

Qy 38 VTAVEYQEAAILACKTPKKTYS--RLEWKKLGRSVFVYYOOTLQGDFFKNRAEMIDFNIR 95
Db 148 VELLEGTEVDNFCSTPYVCLQEQVRLQWQGDPPARSVTFSQKFEPTGVGHLETLHM--- 204

Qy 96 IKNVTRSDAGK-YRCEVSAPSEOGONLEEDVTLEVLVAP-AVPSCEVPS--SALSGTVV 151
Db 205 --AMSWQDHGIRLCQLSVANHRAQS-----EIHQVKYAPKGVKILLSPSGRNITLPGELV 258

Qy 152 ELRCQDKEGNPA-PeyTWFKDGIRLLENPRLGQSTNSSTYMTTKGTQLQFNTVSKLDGTG 210
Db 259 TLTQVNSSYPVAVSSIKWLKDGVR-----QTKTGVHLHPQAASWDAG 301

Qy 211 EYSCARNSVG 221
Db 302 VYTQEAENGVG 312
```

Search completed: December 6, 2005, 13:45:52  
Job time : 13 secs

**This Page Blank (uspto)**